

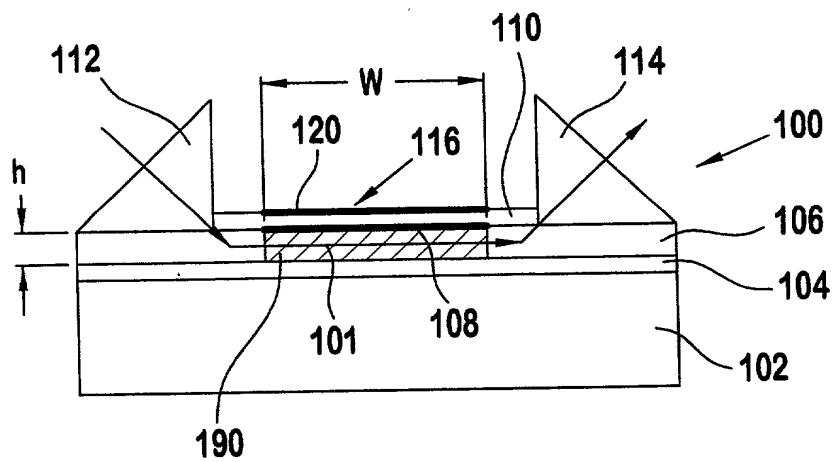
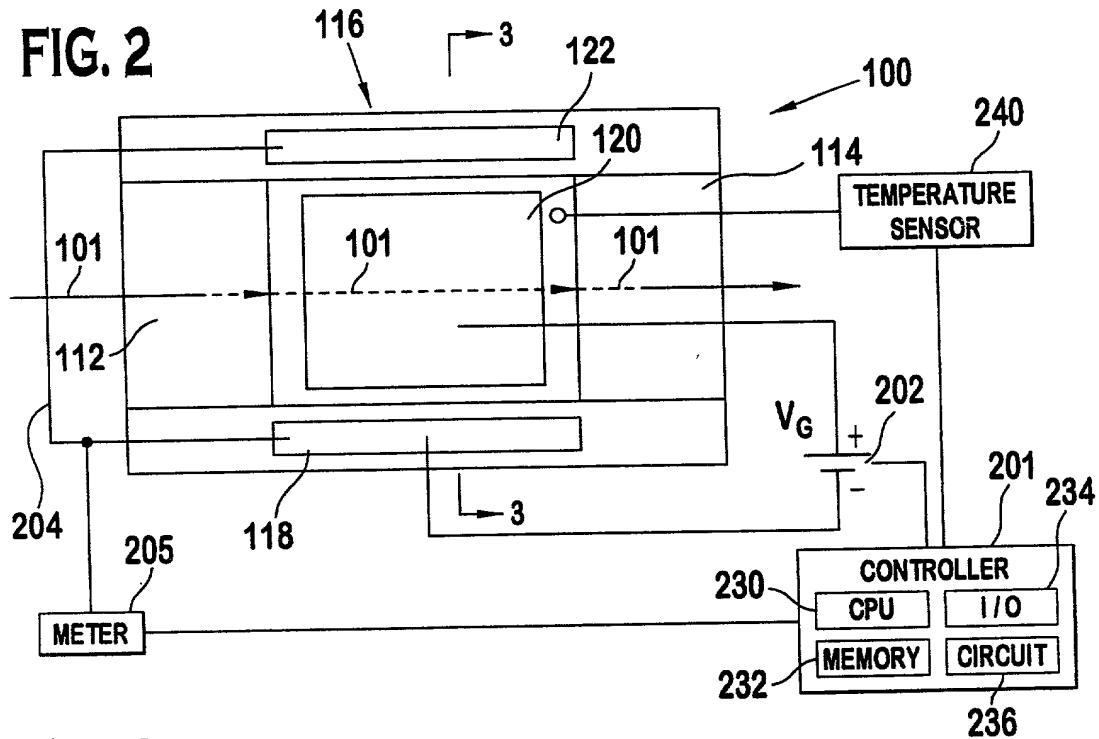
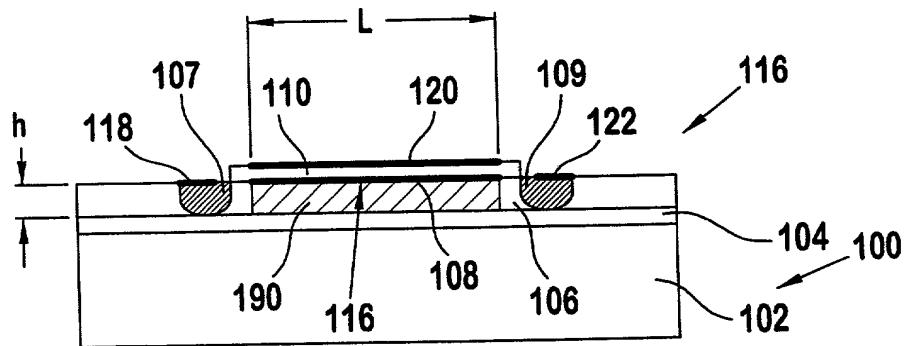
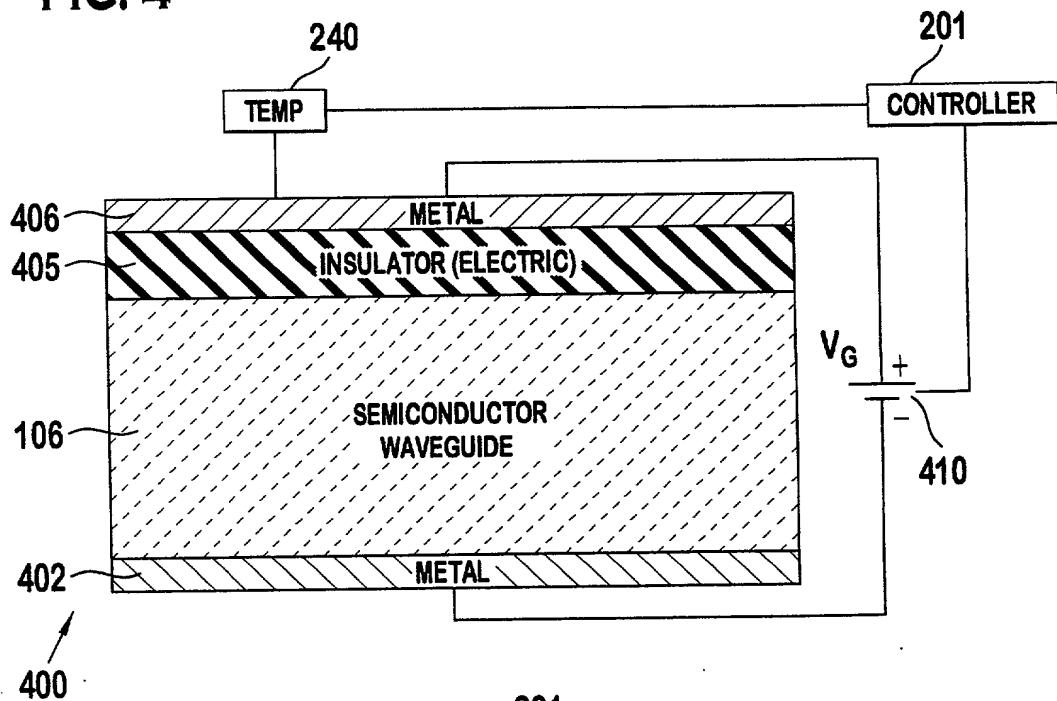
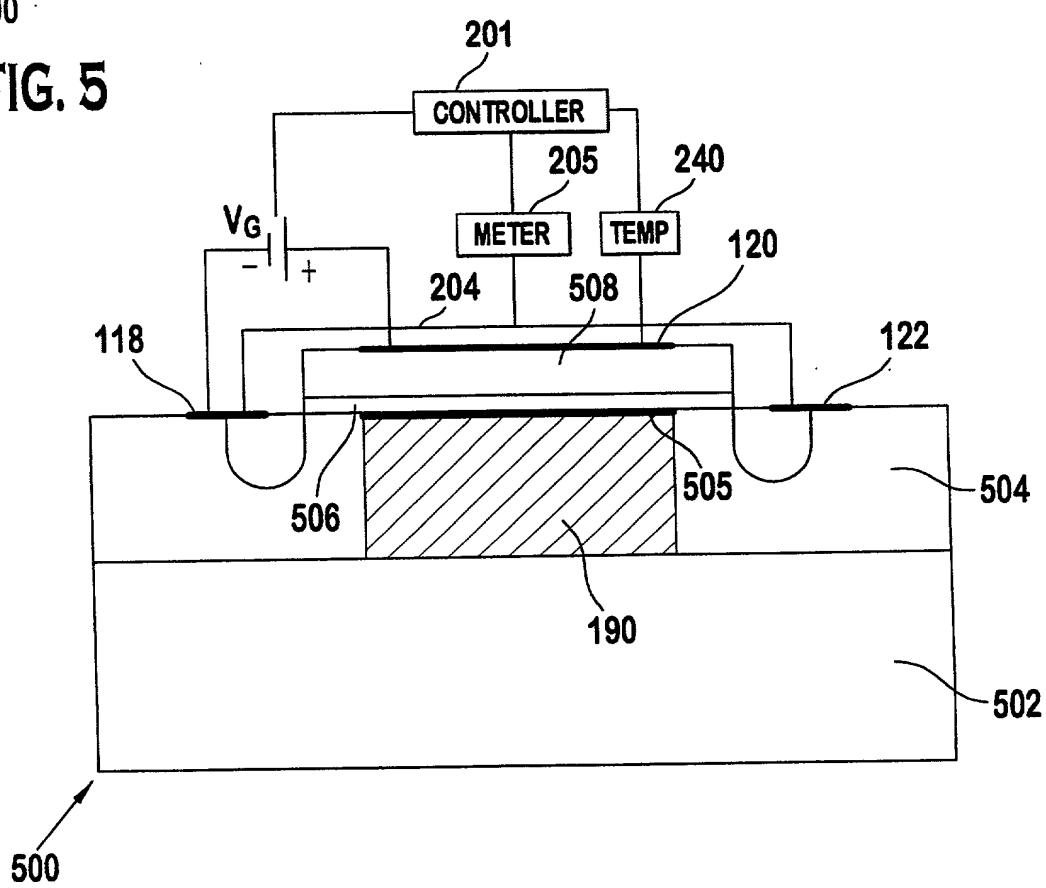
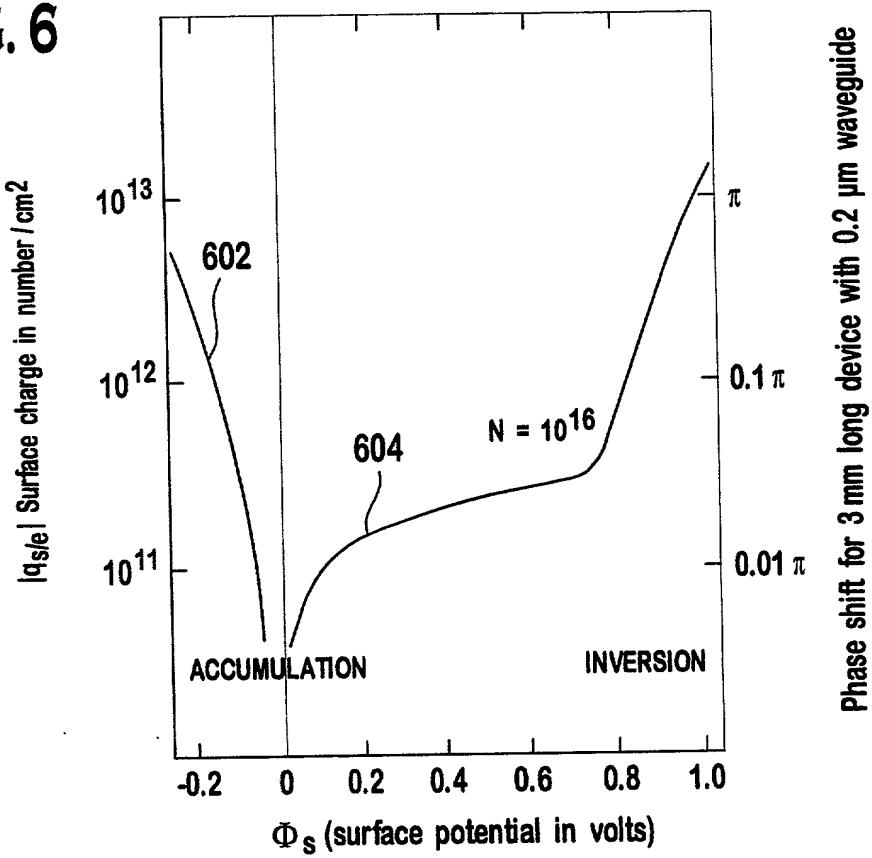
FIG. 1**FIG. 2****FIG. 3**

FIG. 4**FIG. 5**

3/55

FIG. 6



Phase shift for 3 mm long device with 0.2 μm waveguide

FIG. 7

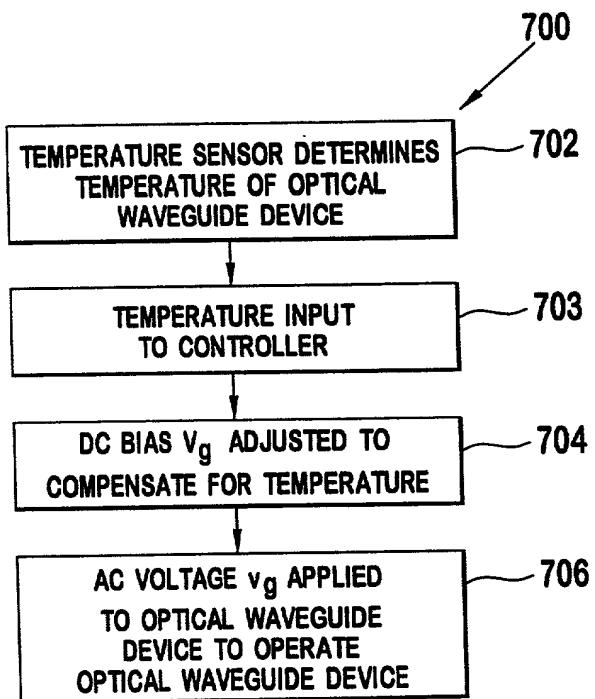


FIG. 8

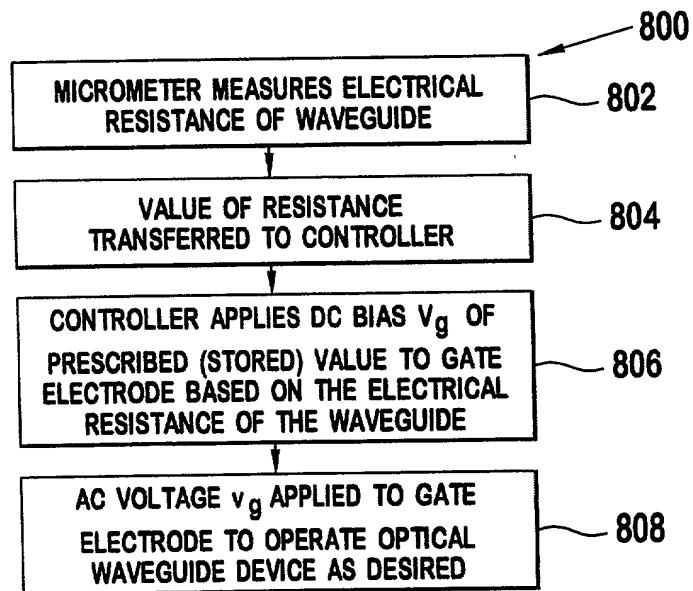


FIG. 9

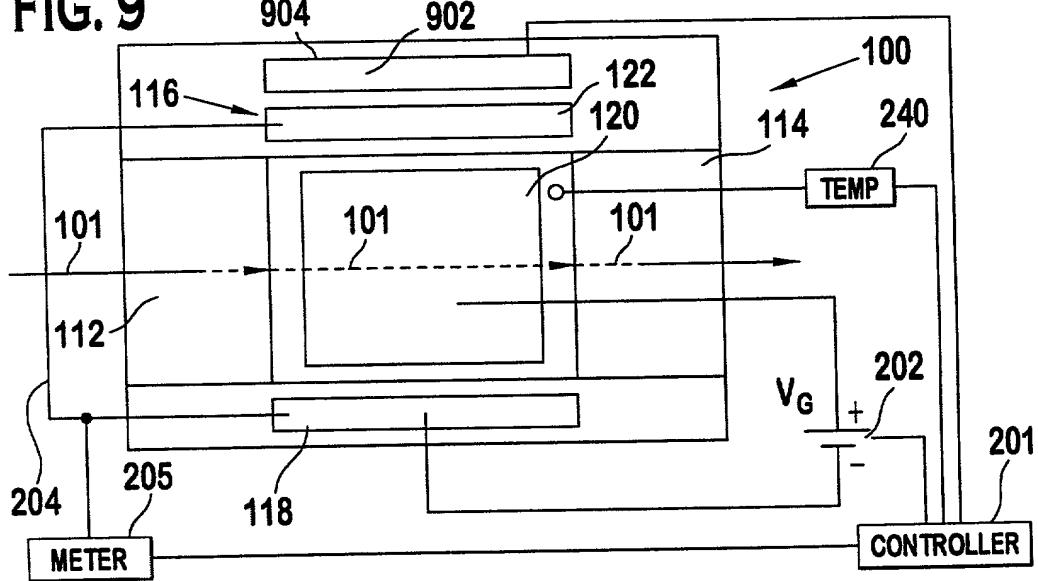


FIG. 10

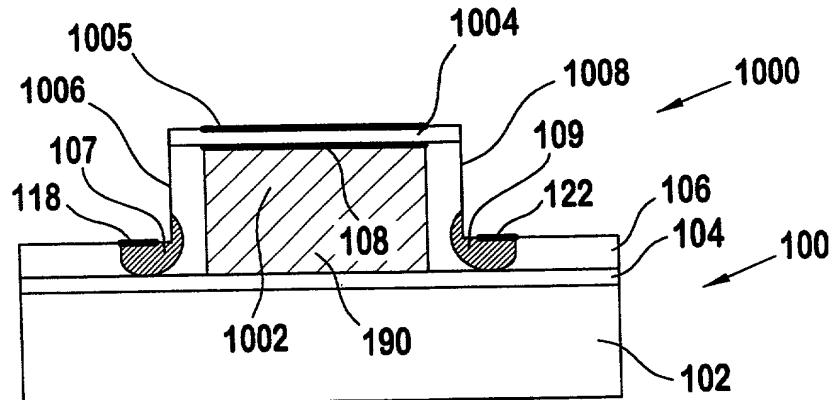


FIG. 11

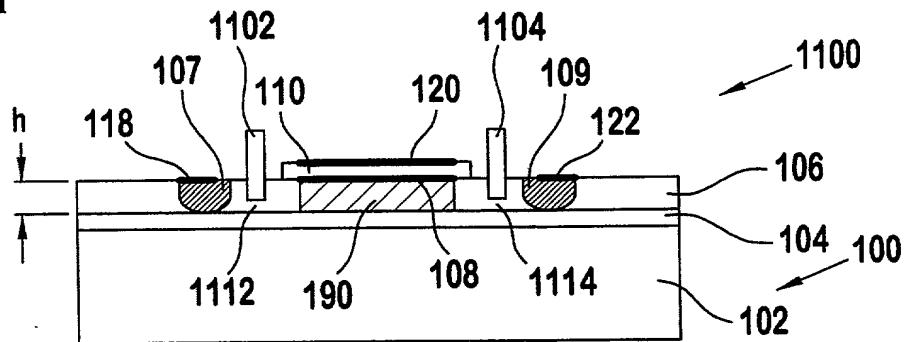


FIG. 12

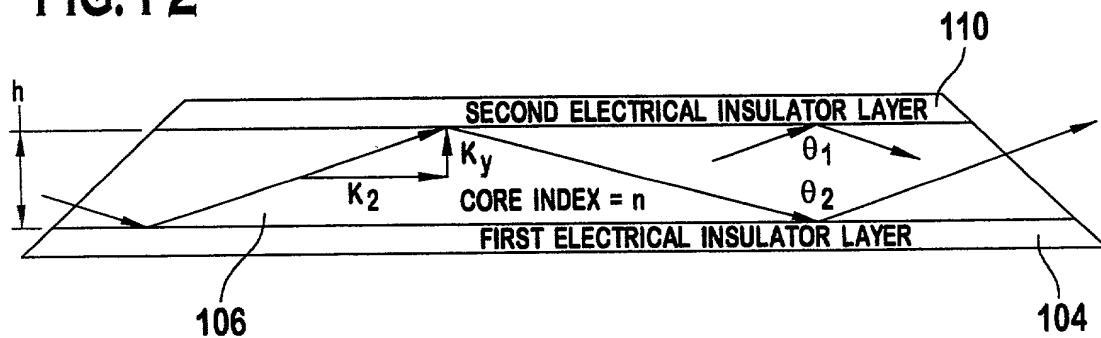
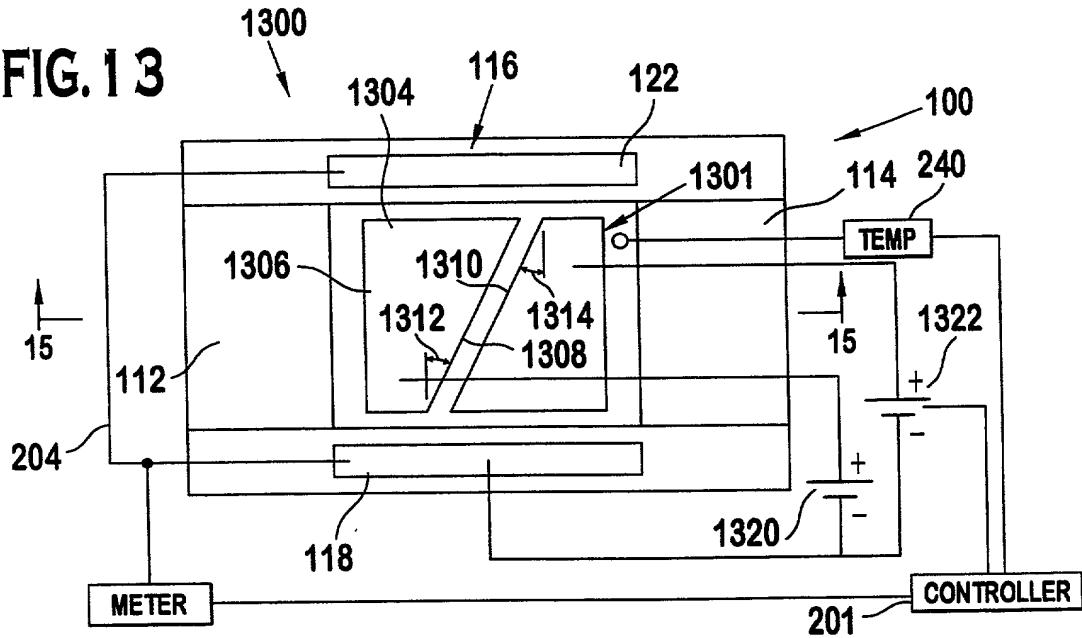


FIG. 13



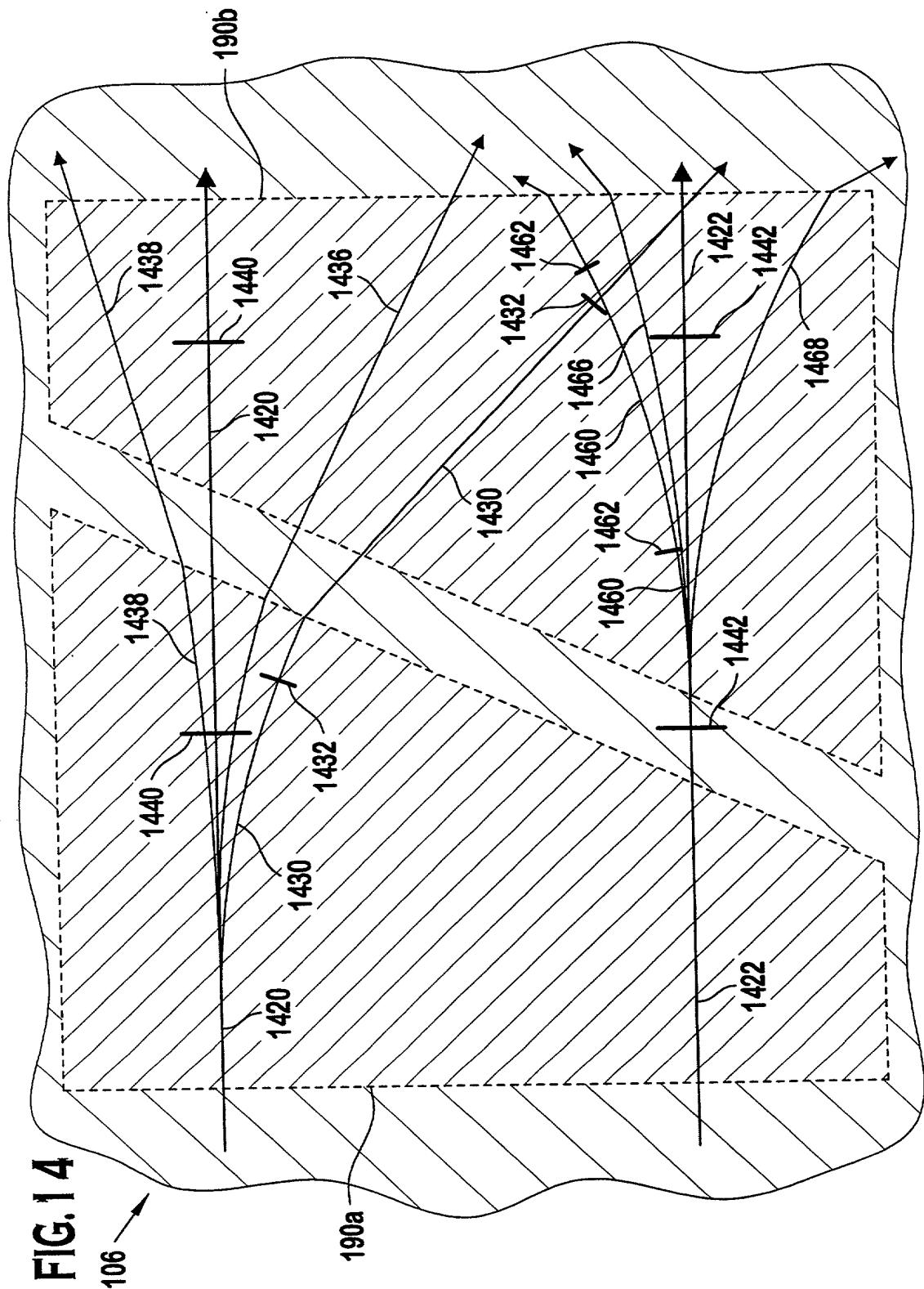


FIG. 14

7/55

FIG. 15A

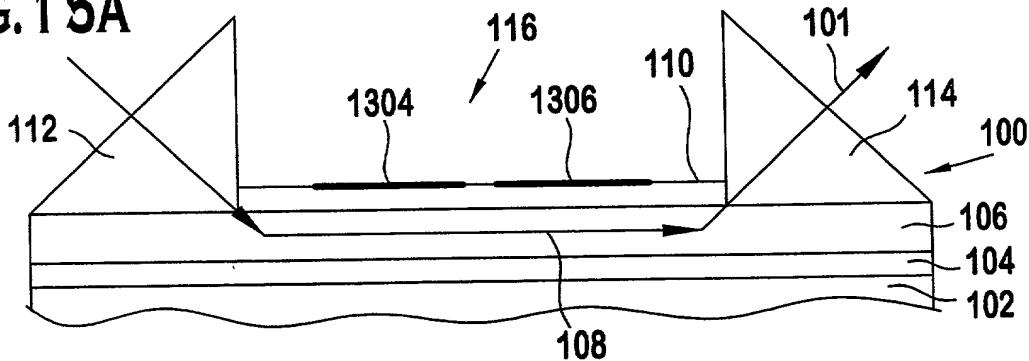


FIG. 15B

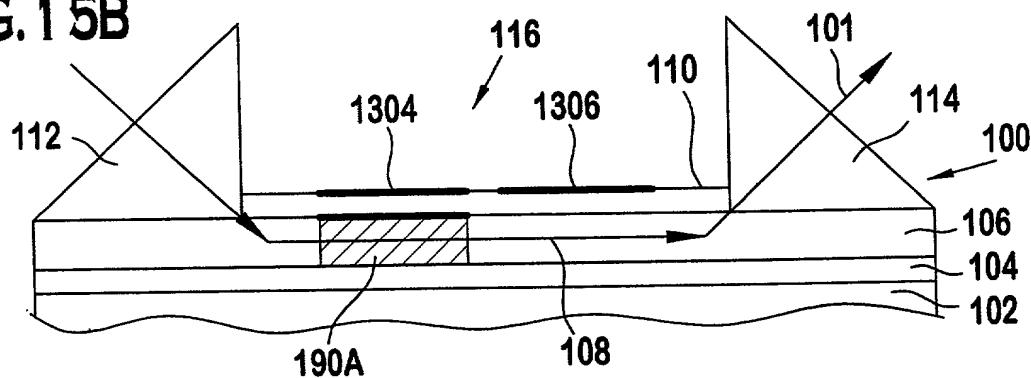


FIG. 15C

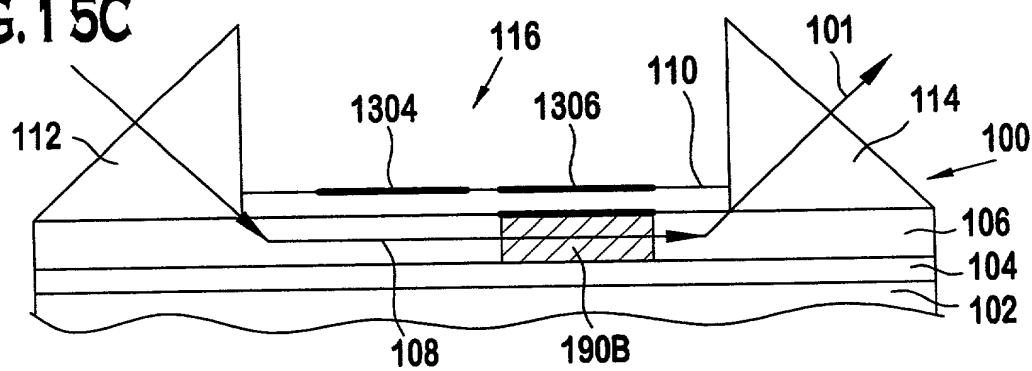


FIG. 15D

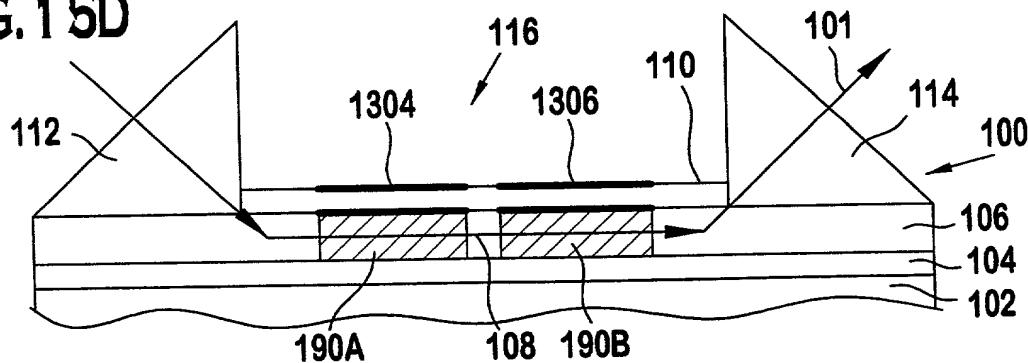


FIG. 16

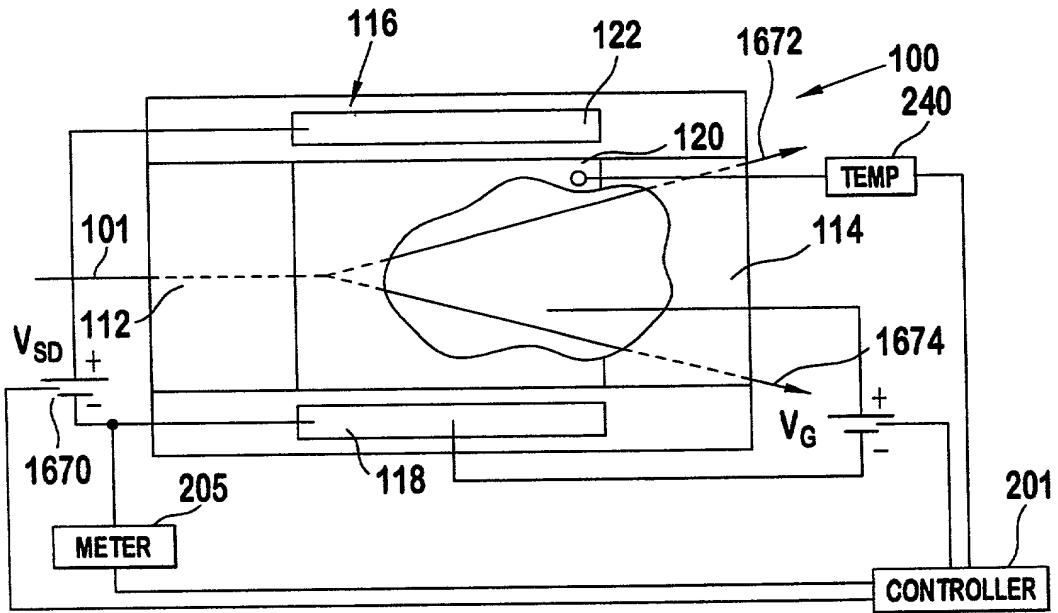


FIG. 17

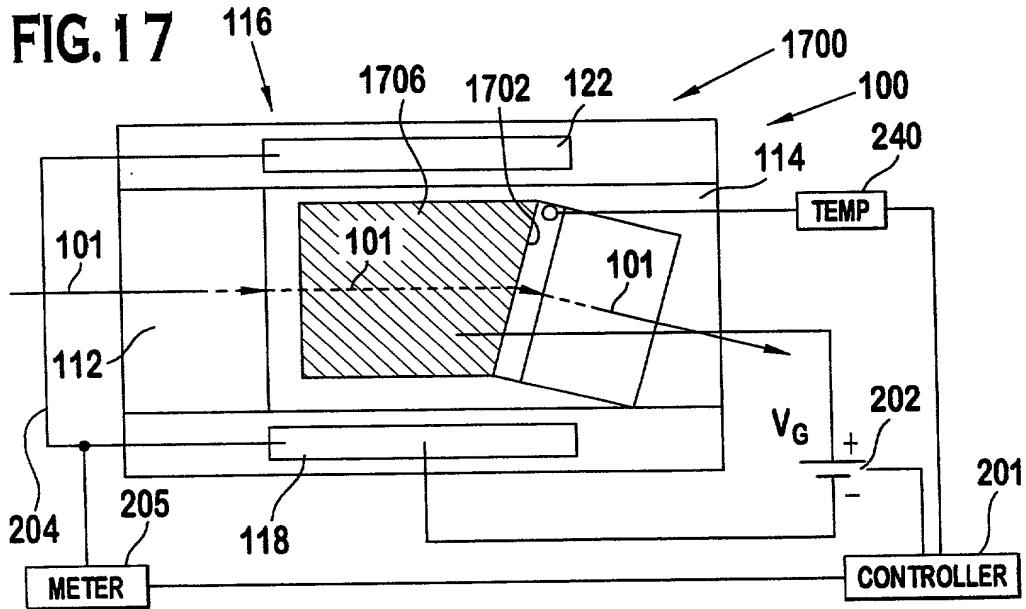
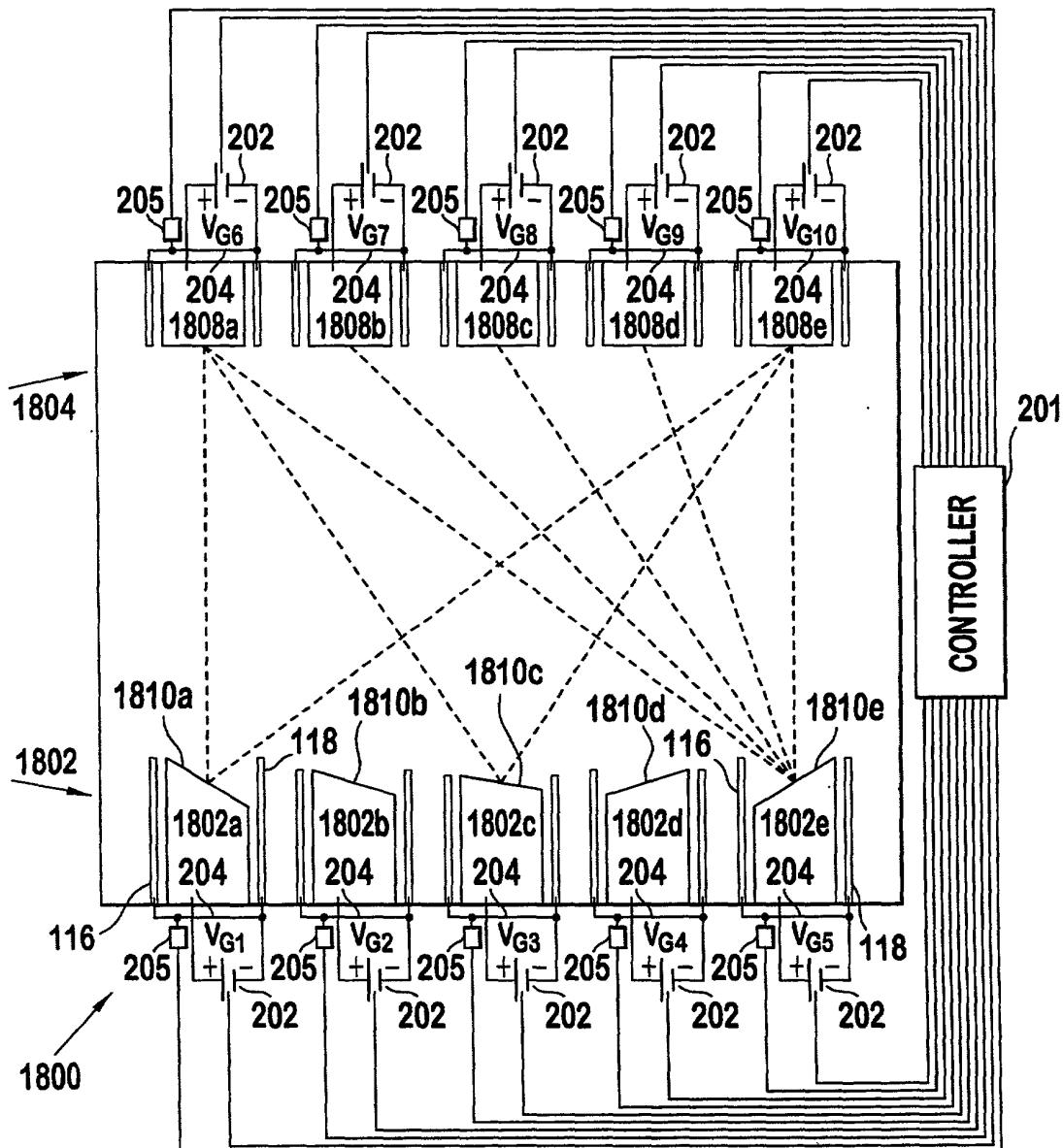


FIG. 18



10/55

FIG. 19

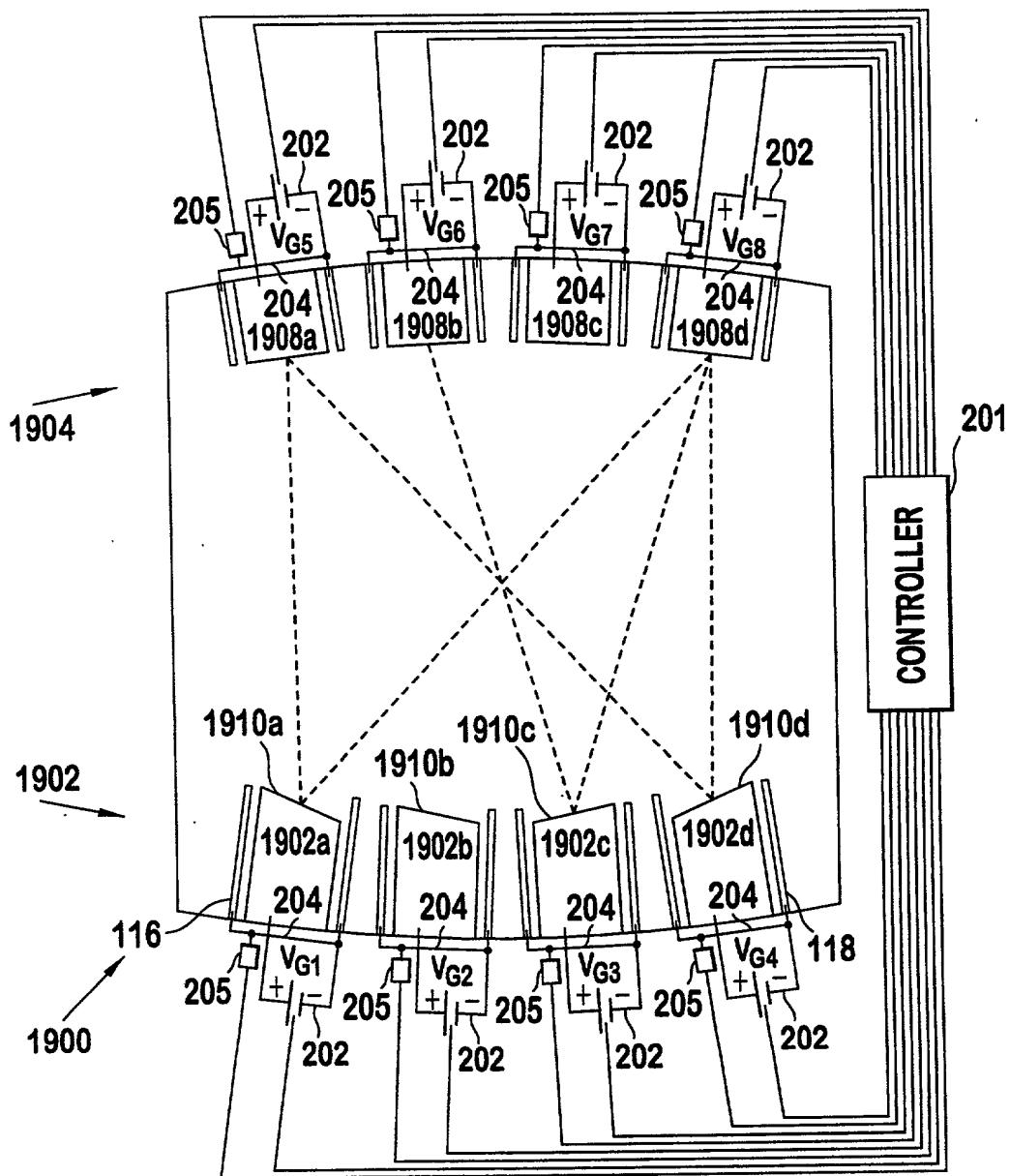
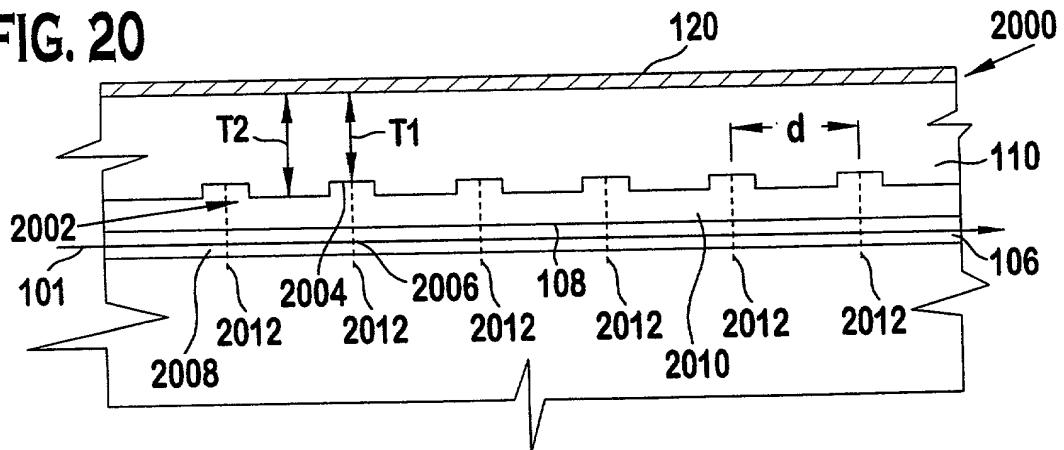
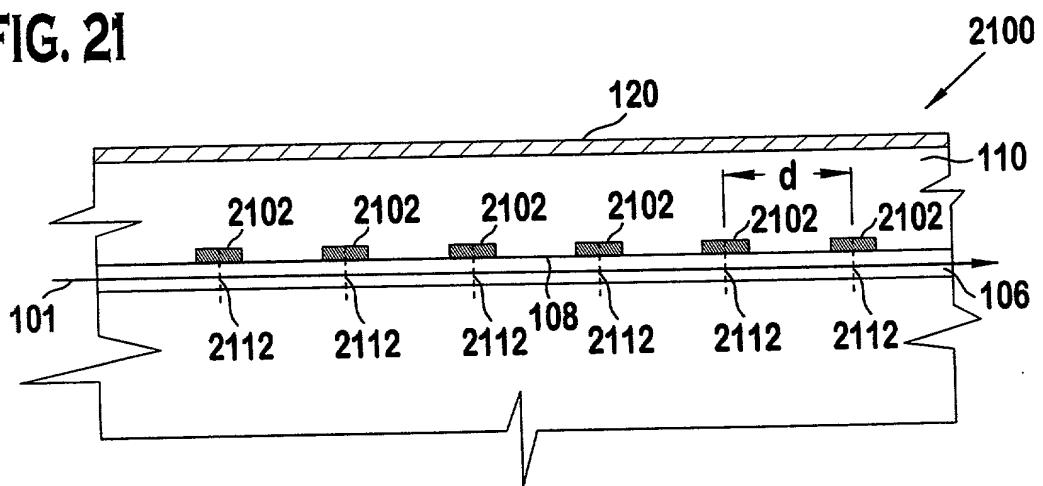
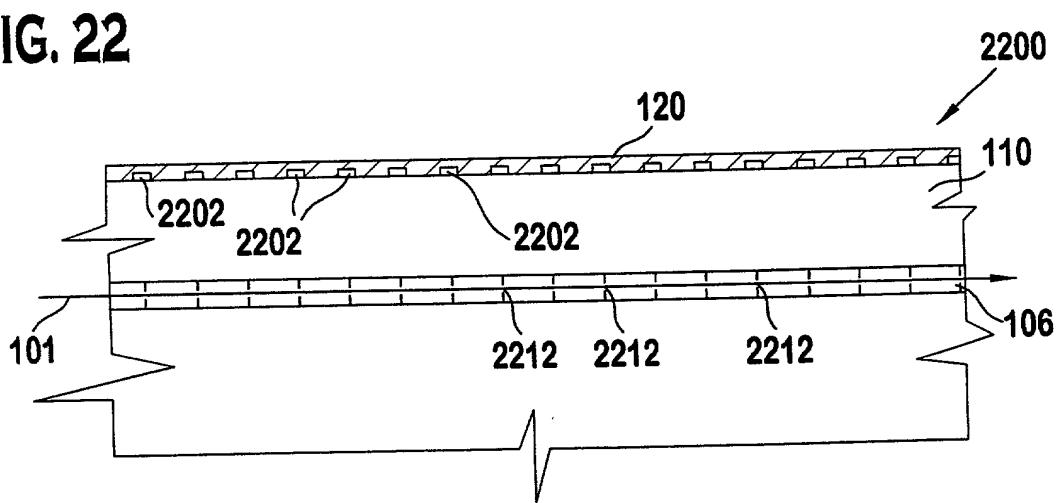


FIG. 20**FIG. 21****FIG. 22**

12/55

FIG. 23

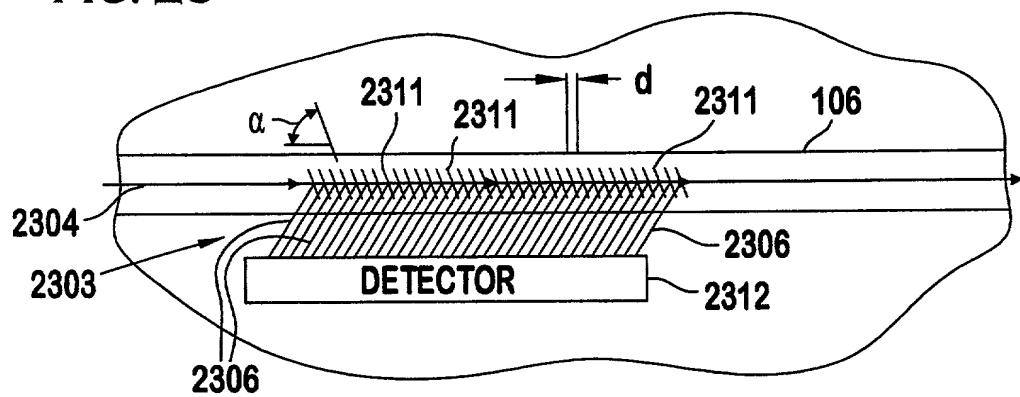
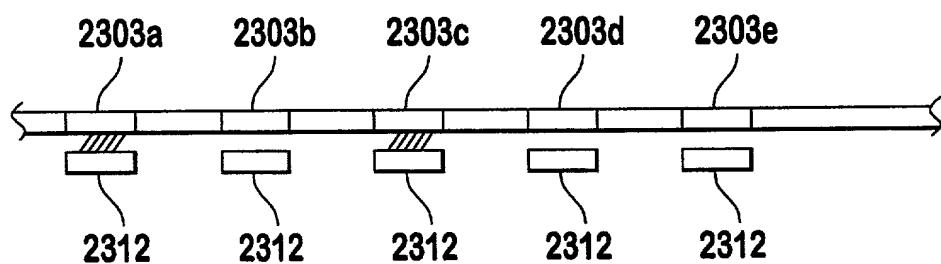


FIG. 24



13/55

FIG. 25

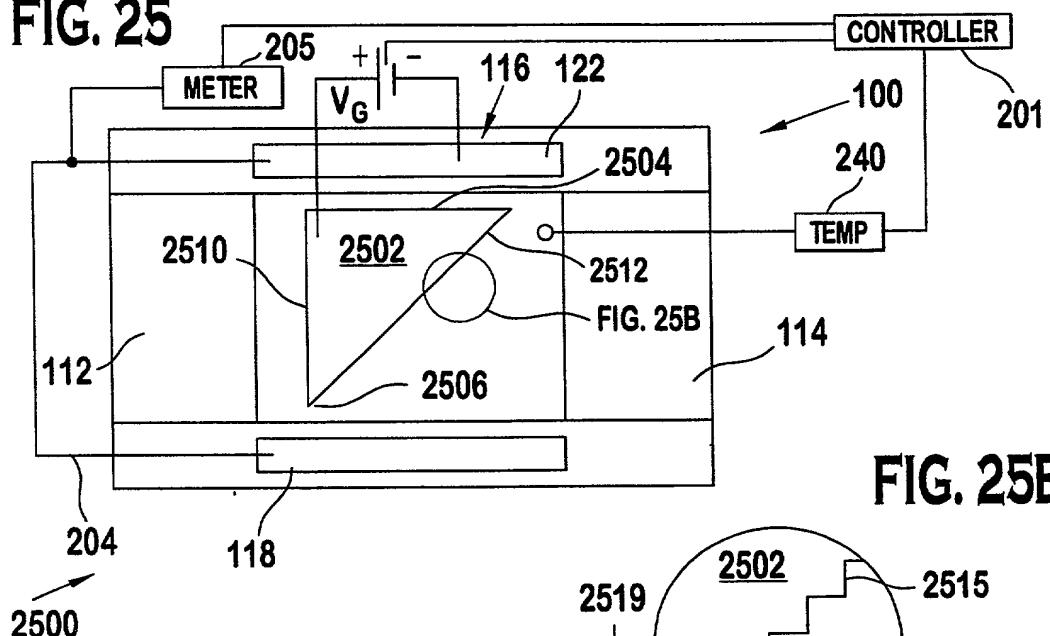


FIG. 25B

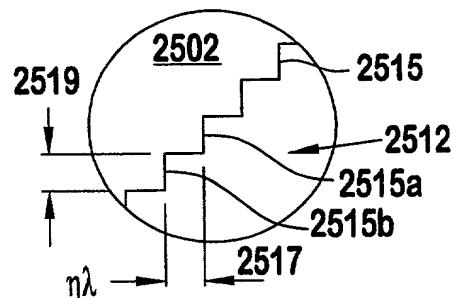


FIG. 26

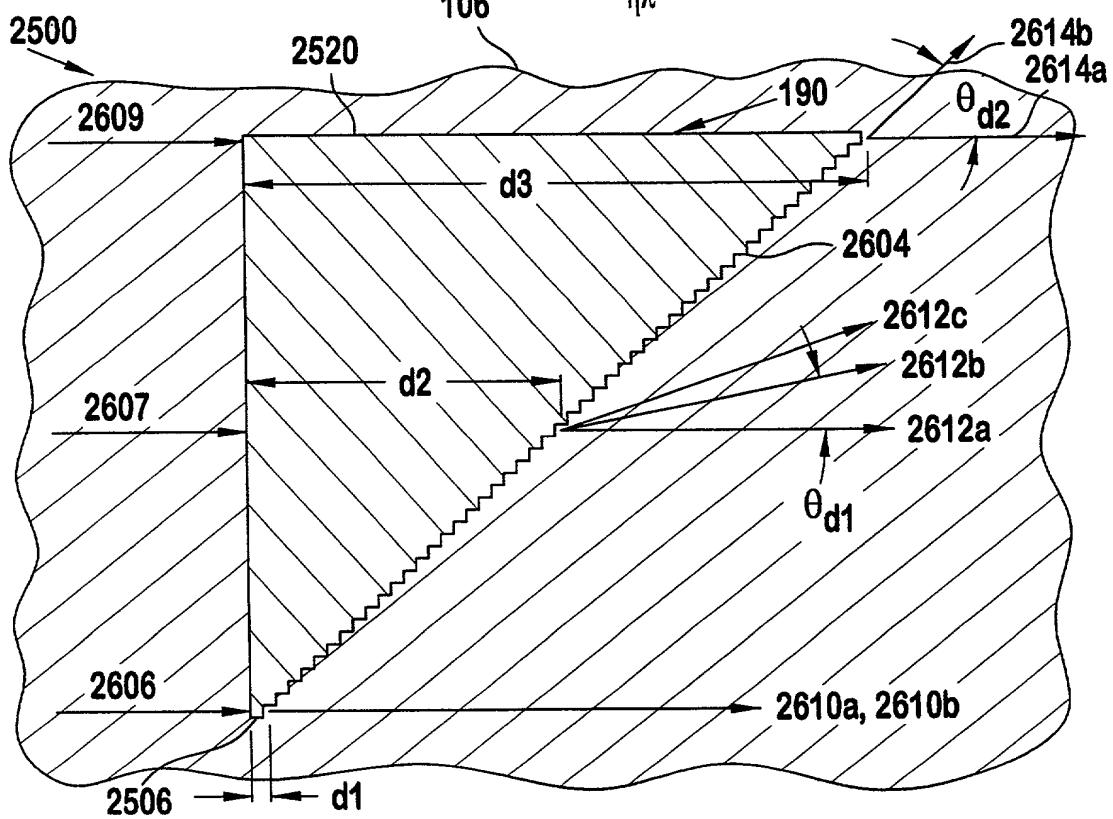


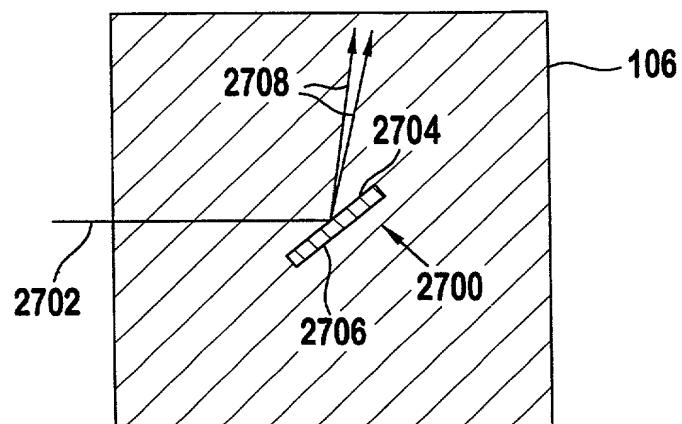
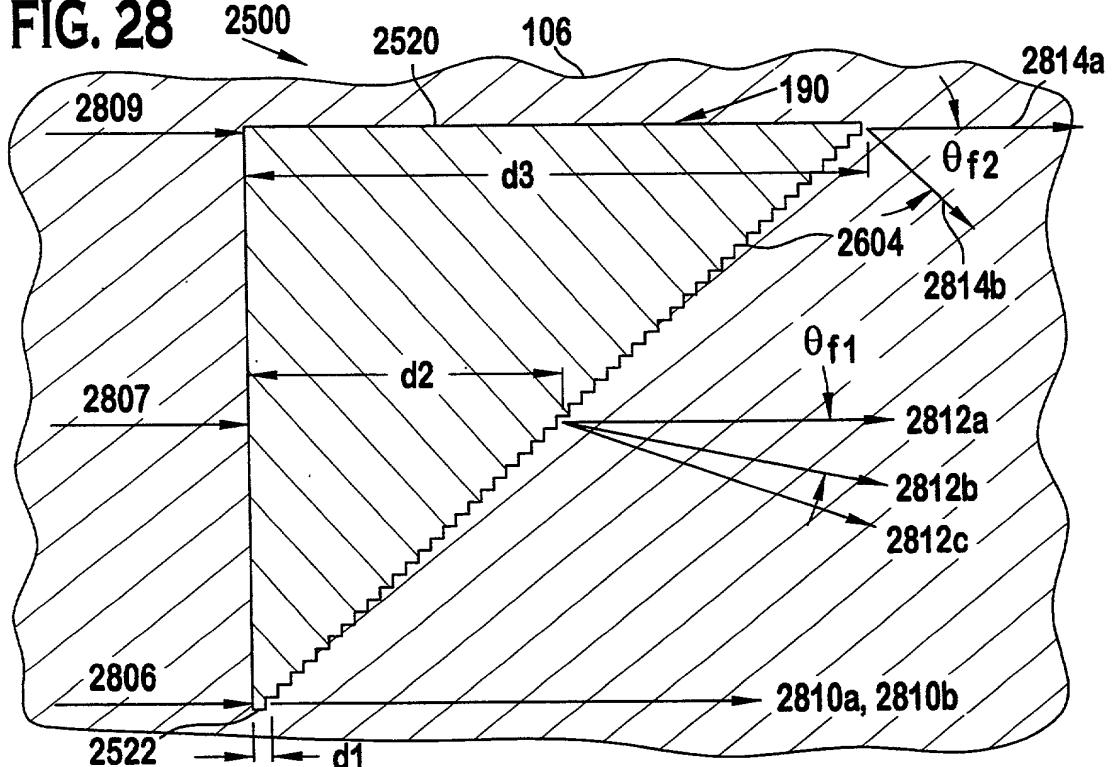
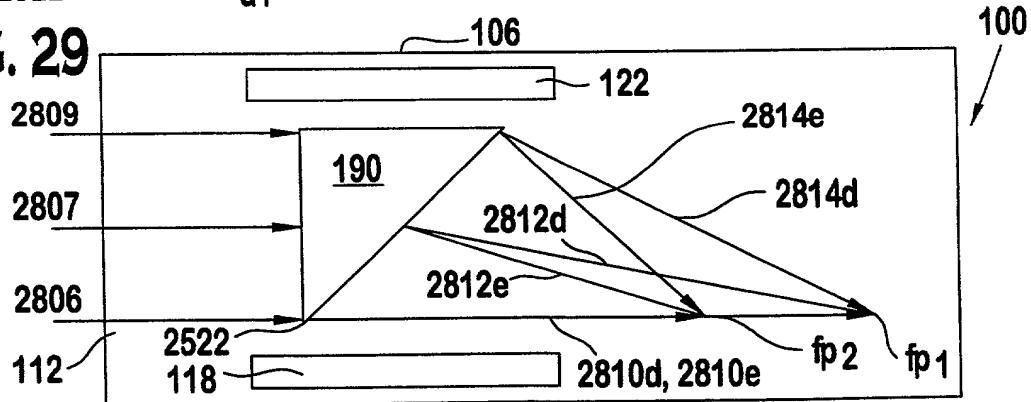
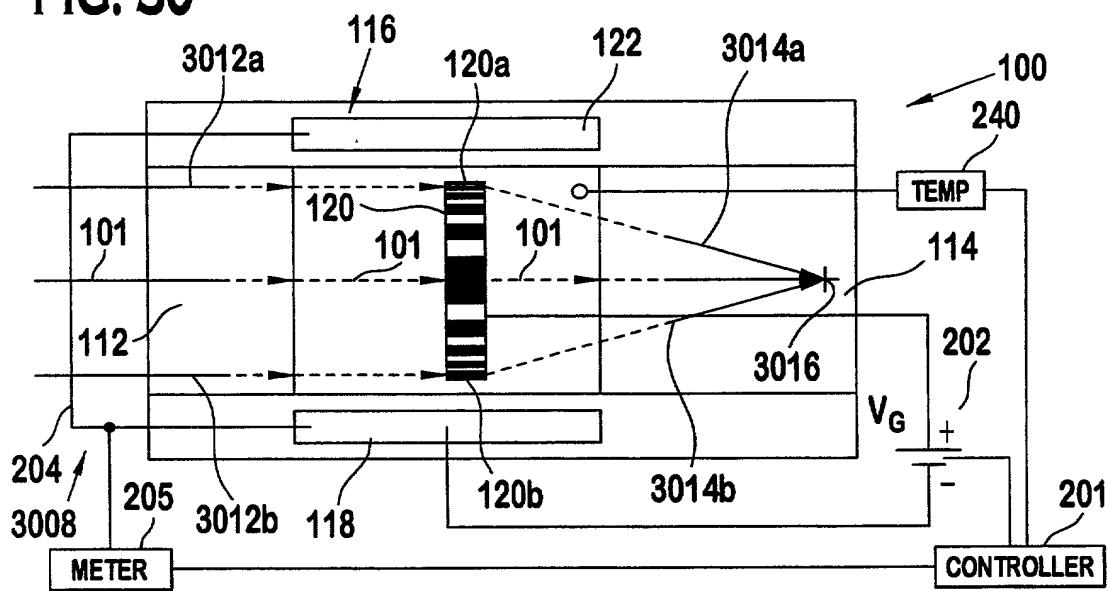
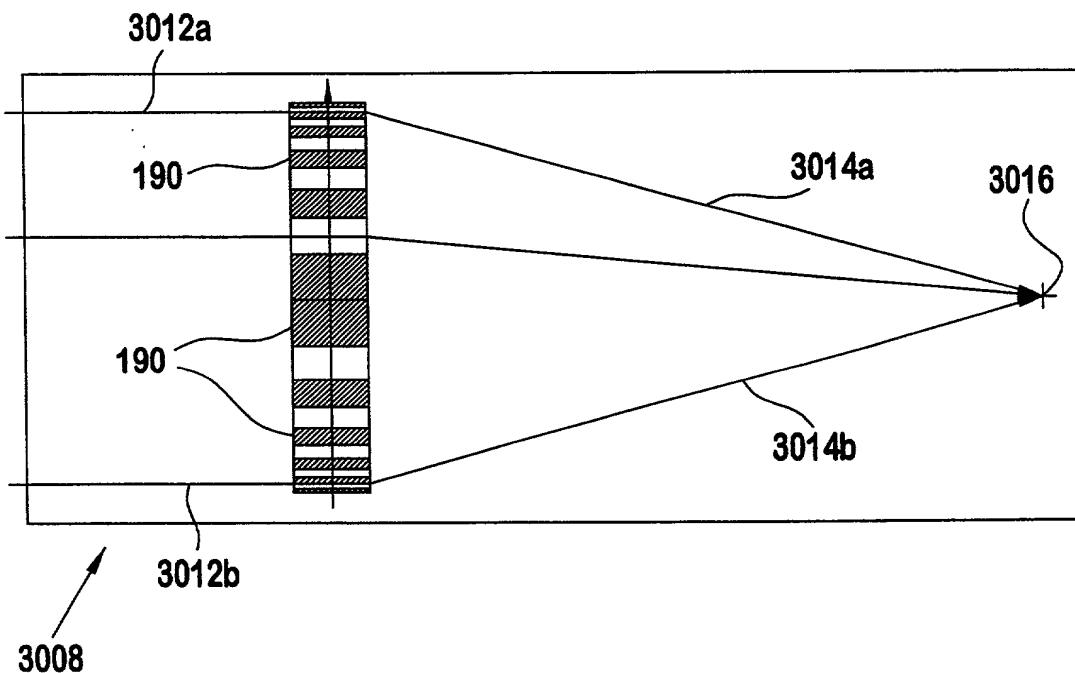
FIG. 27**FIG. 28****FIG. 29**

FIG. 30**FIG. 30A**

16/55

FIG. 31

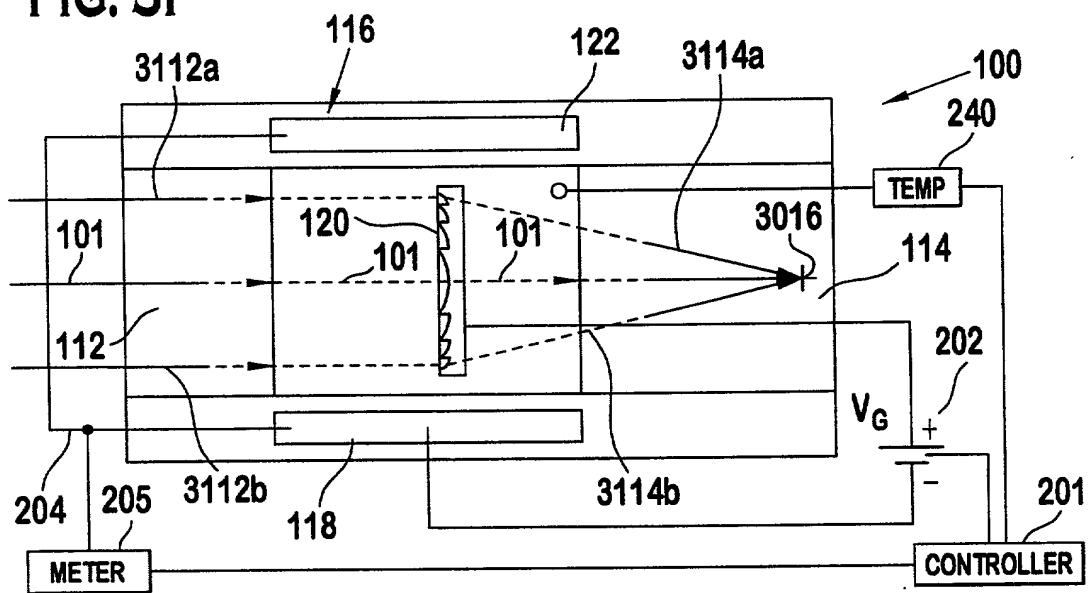
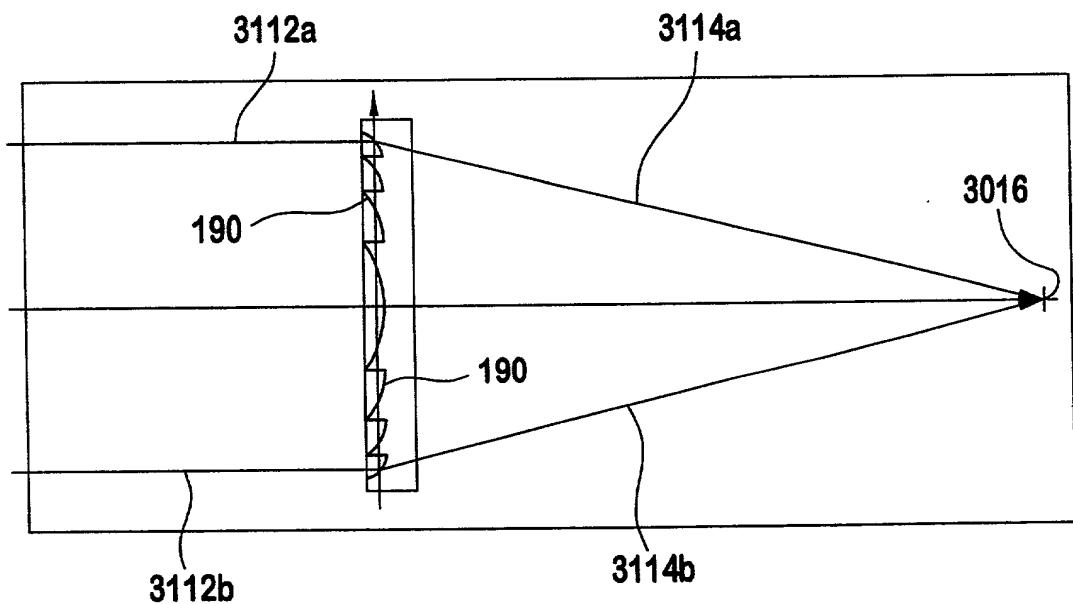


FIG. 31 A



17/55

FIG. 32

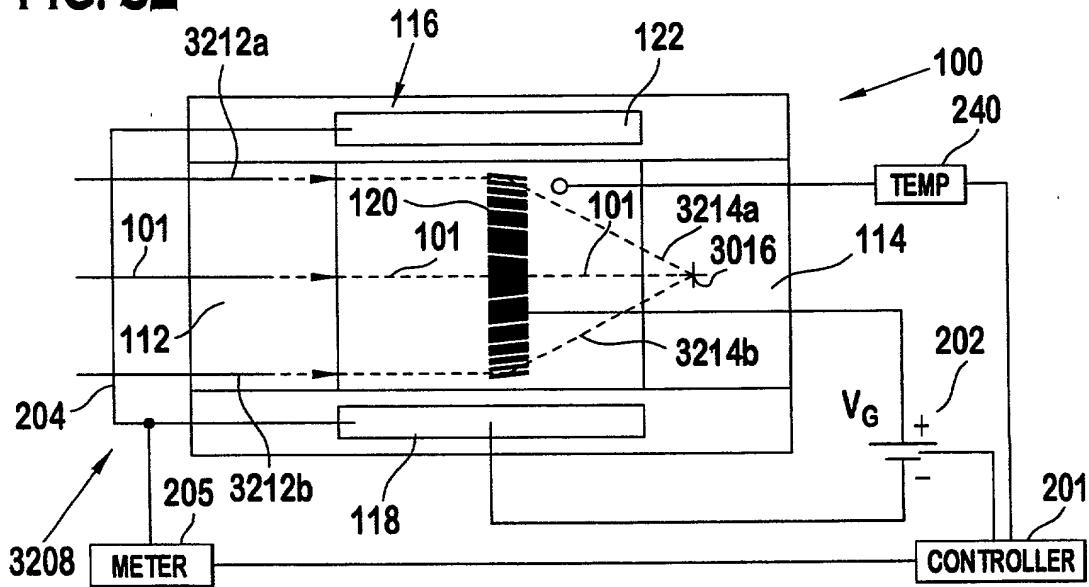


FIG. 32A

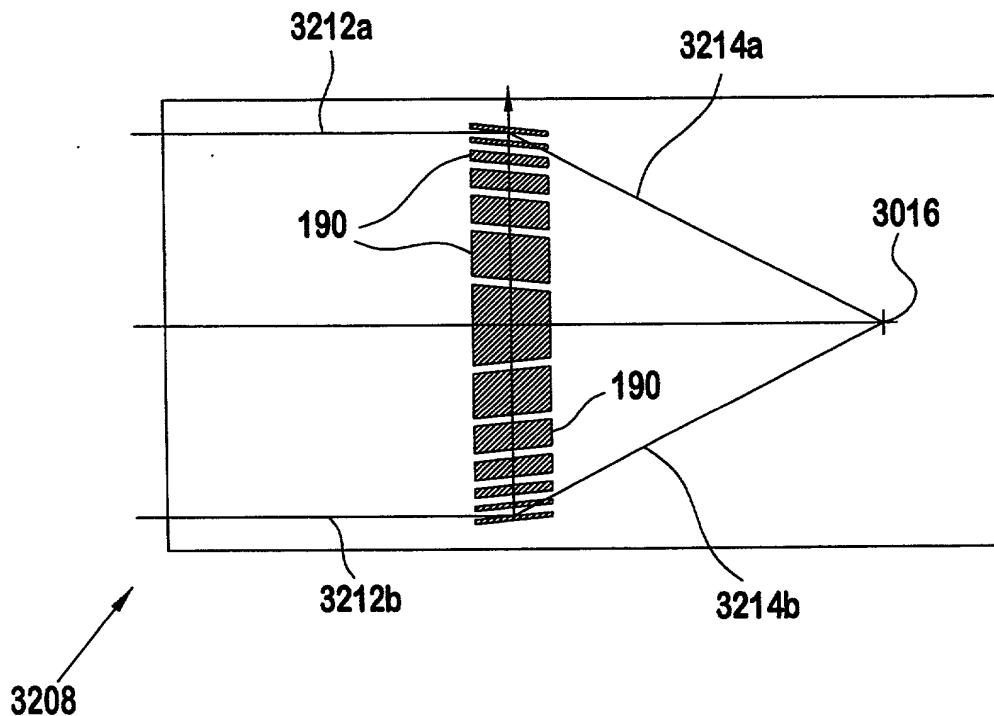


FIG. 33

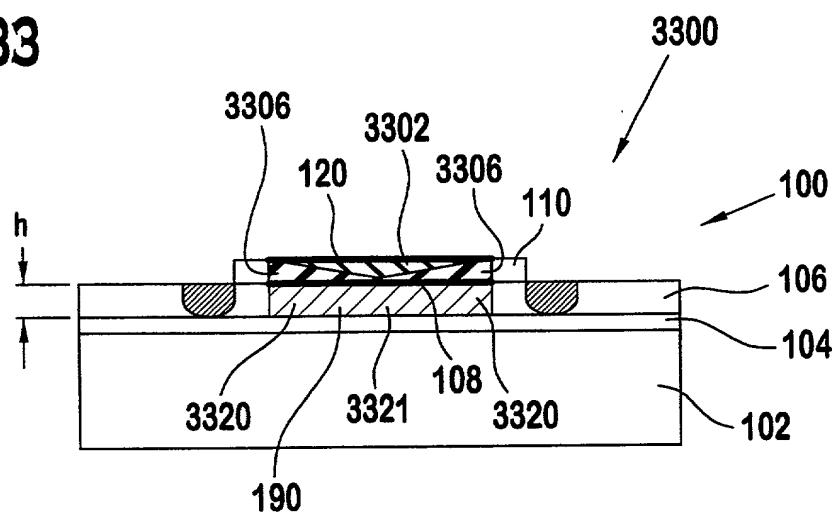


FIG. 34

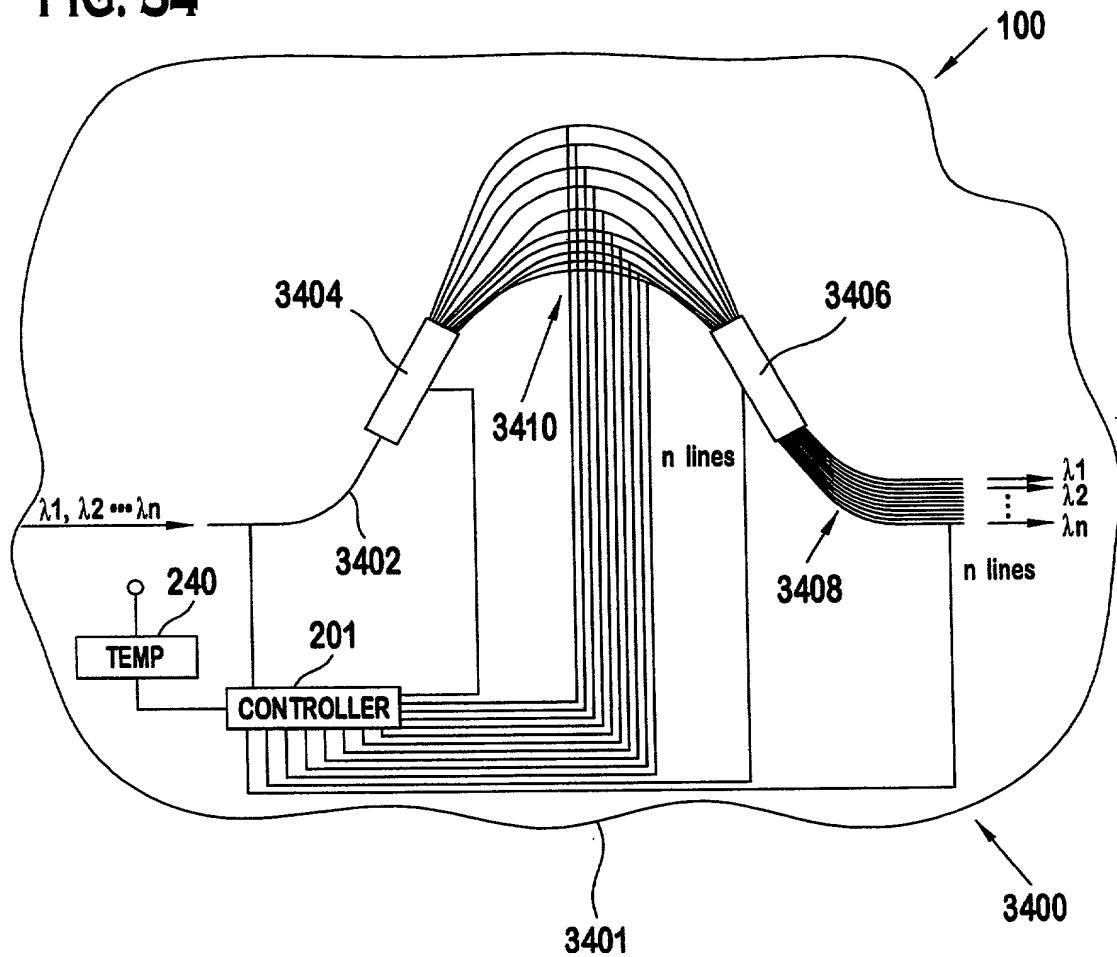


FIG. 35

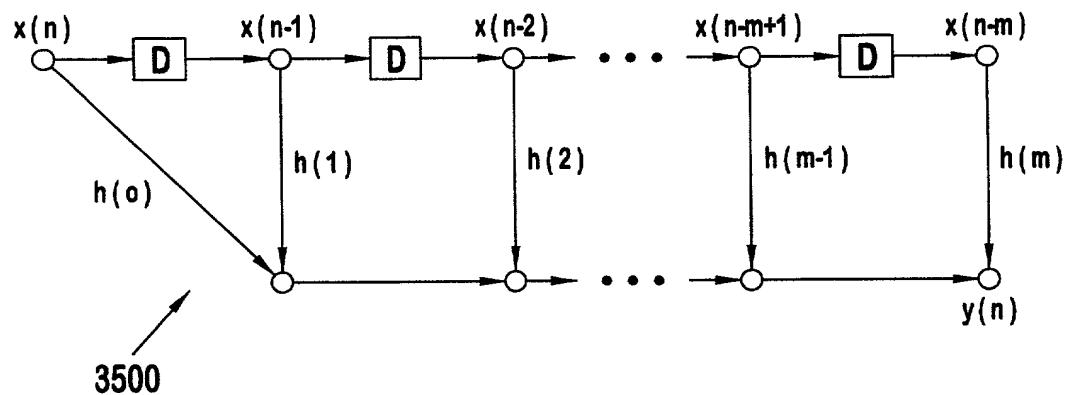
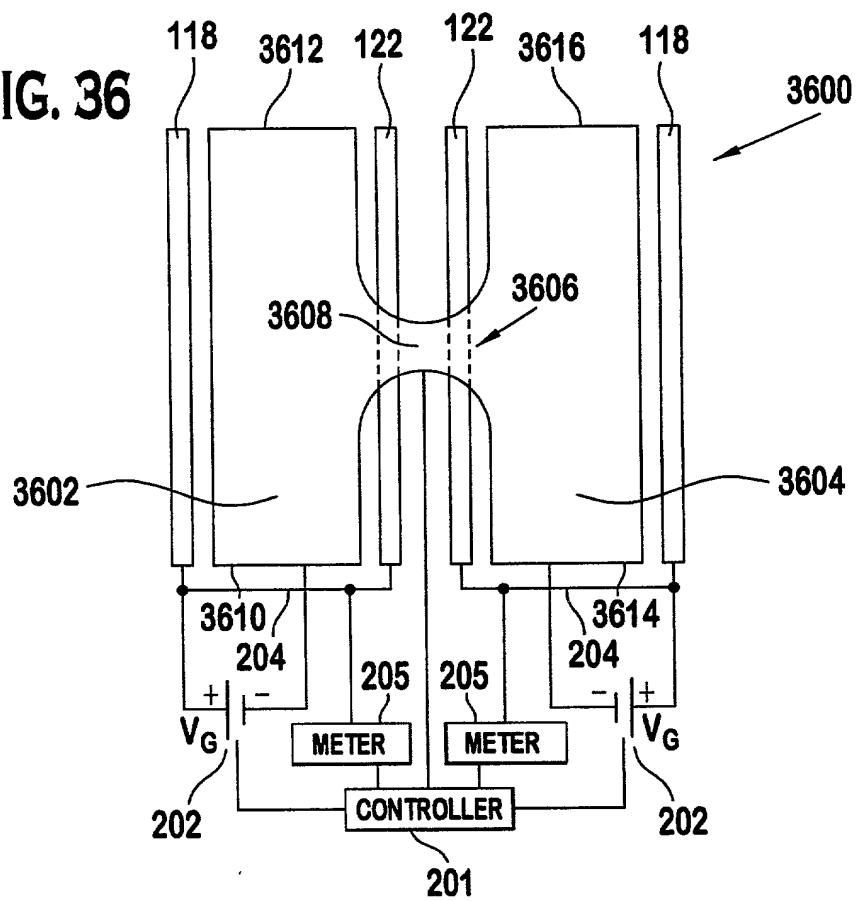


FIG. 36



20/55

FIG. 37

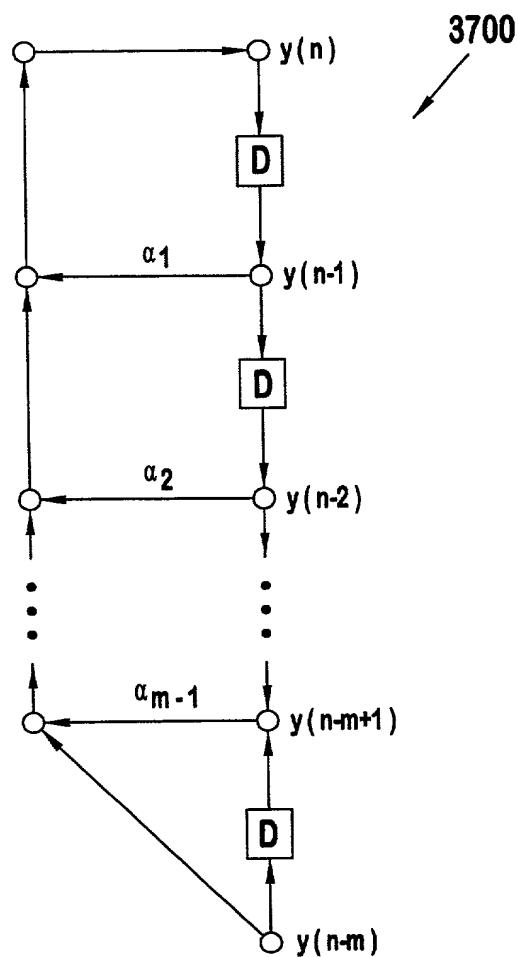
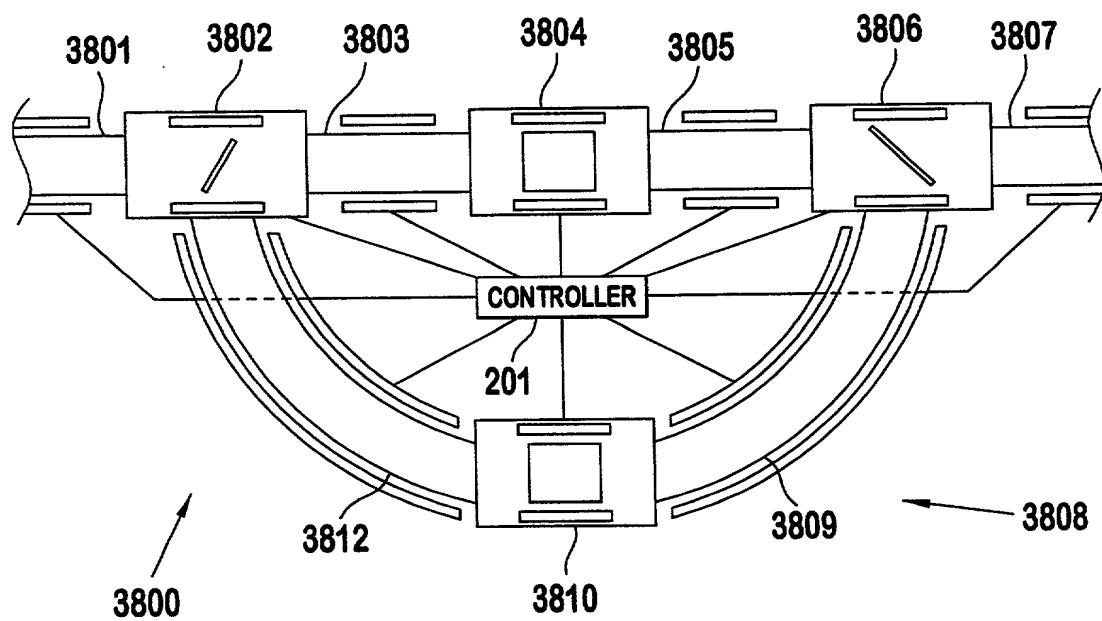


FIG. 38



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FIG. 39

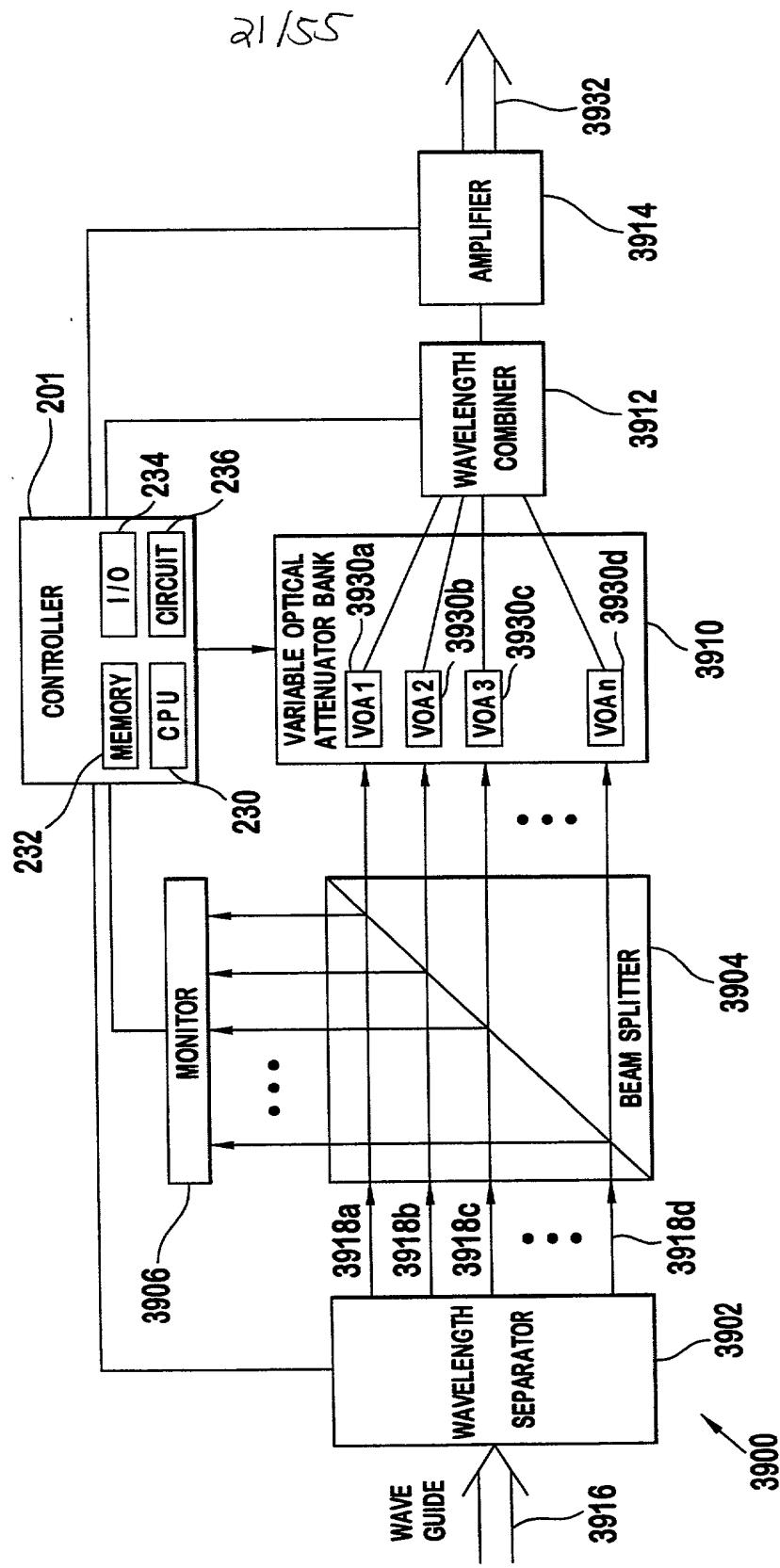
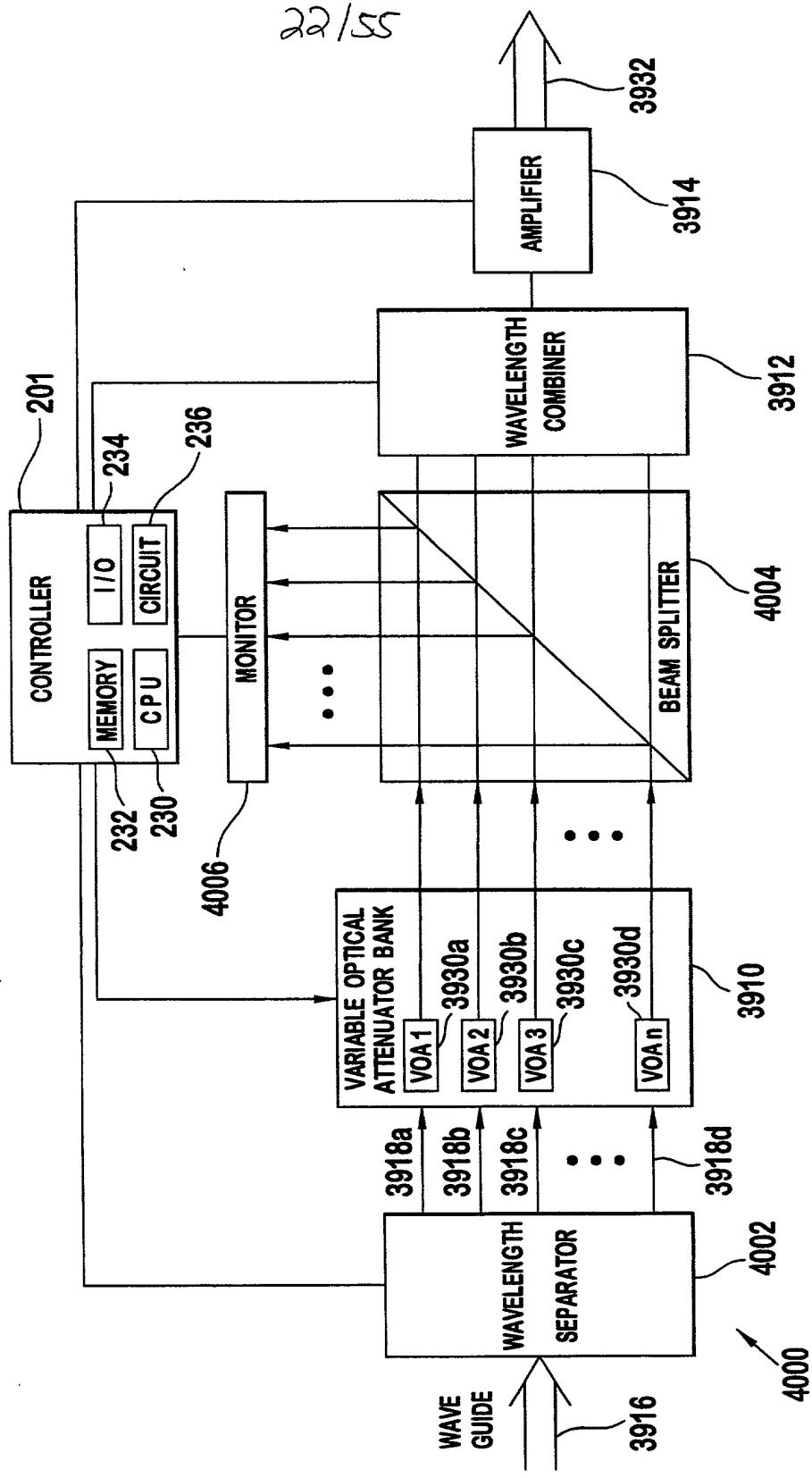
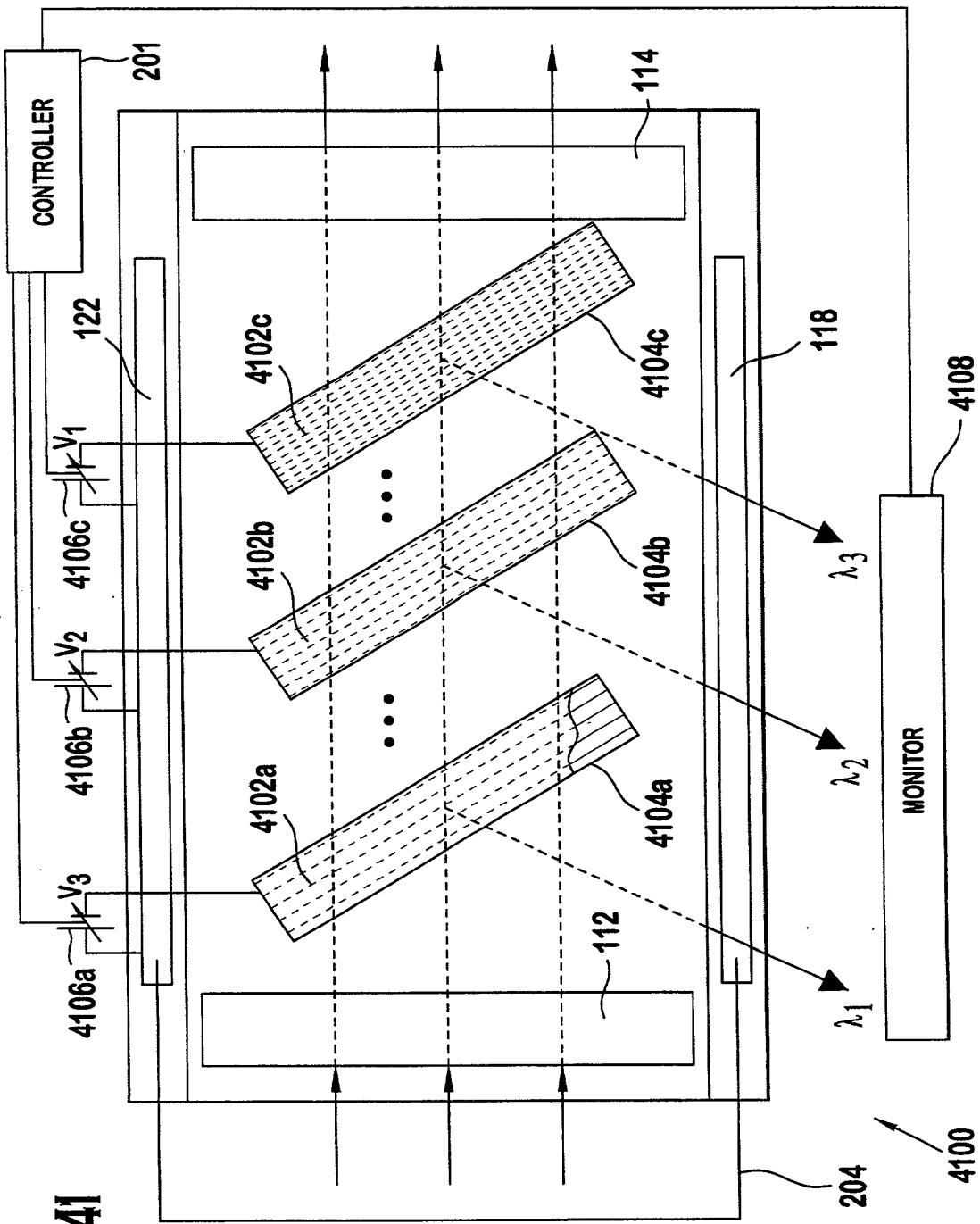


FIG. 40





24/55

FIG. 42

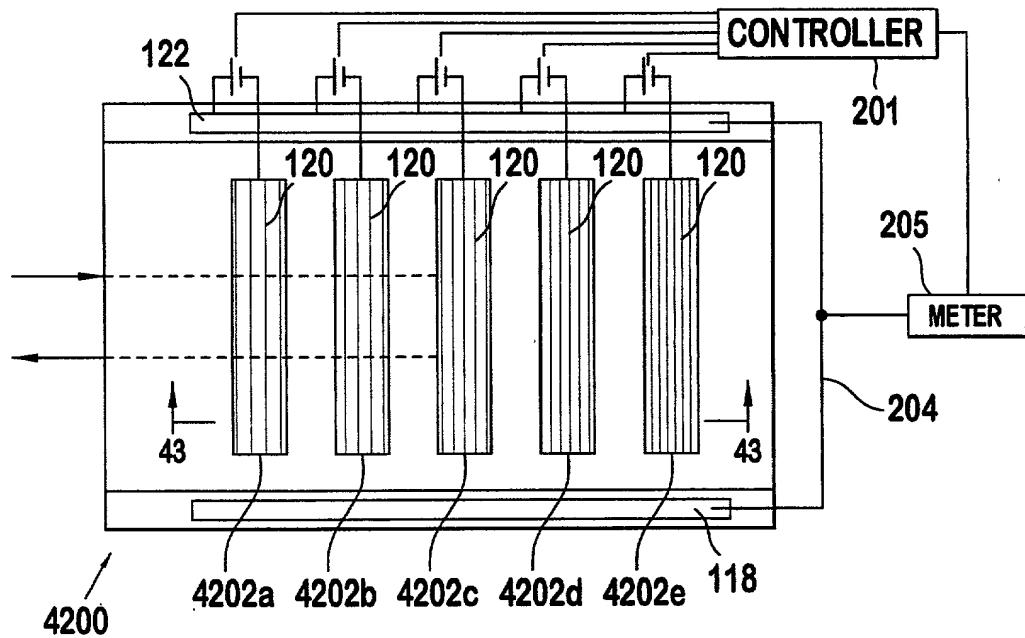


FIG. 43

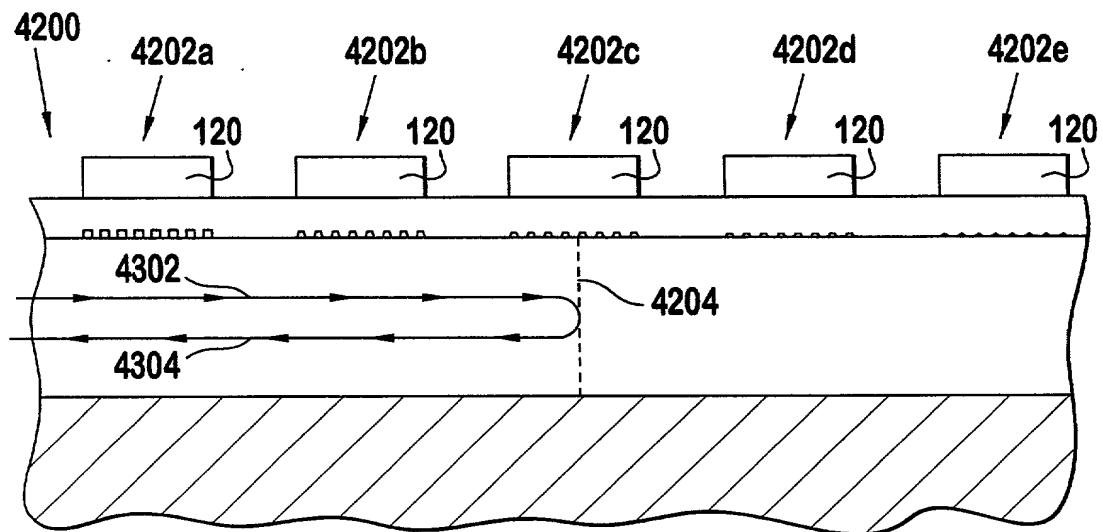


FIG. 44

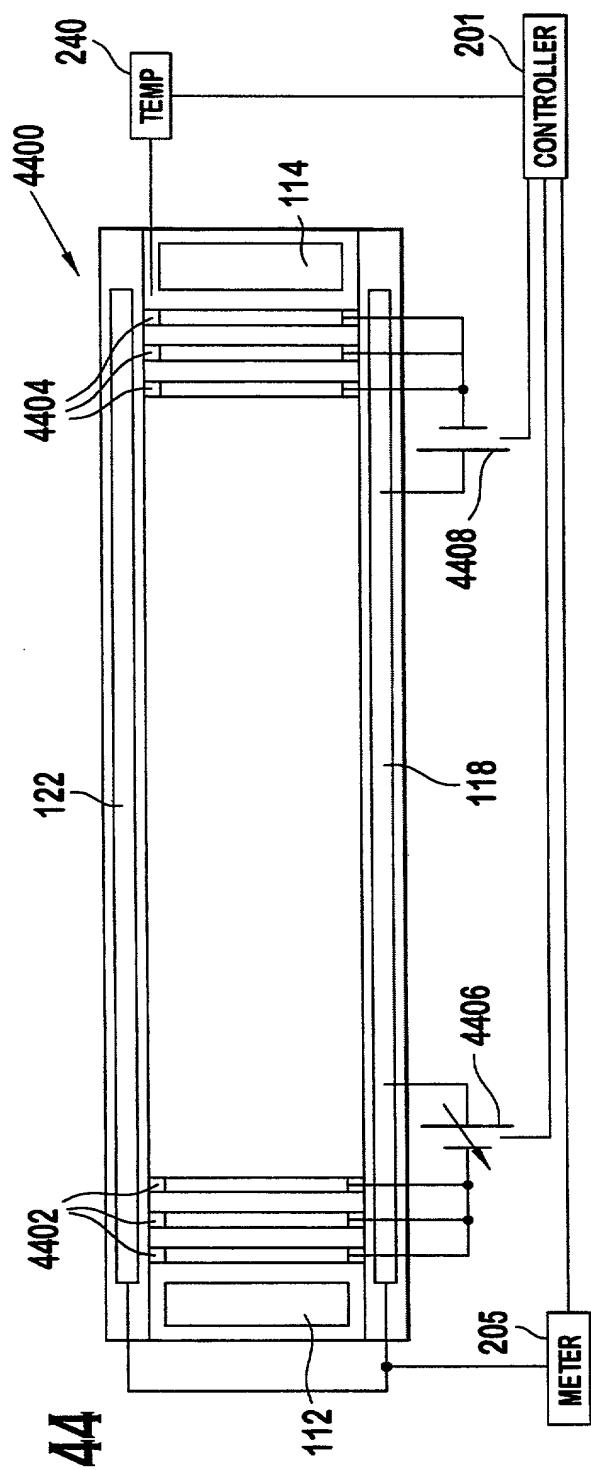
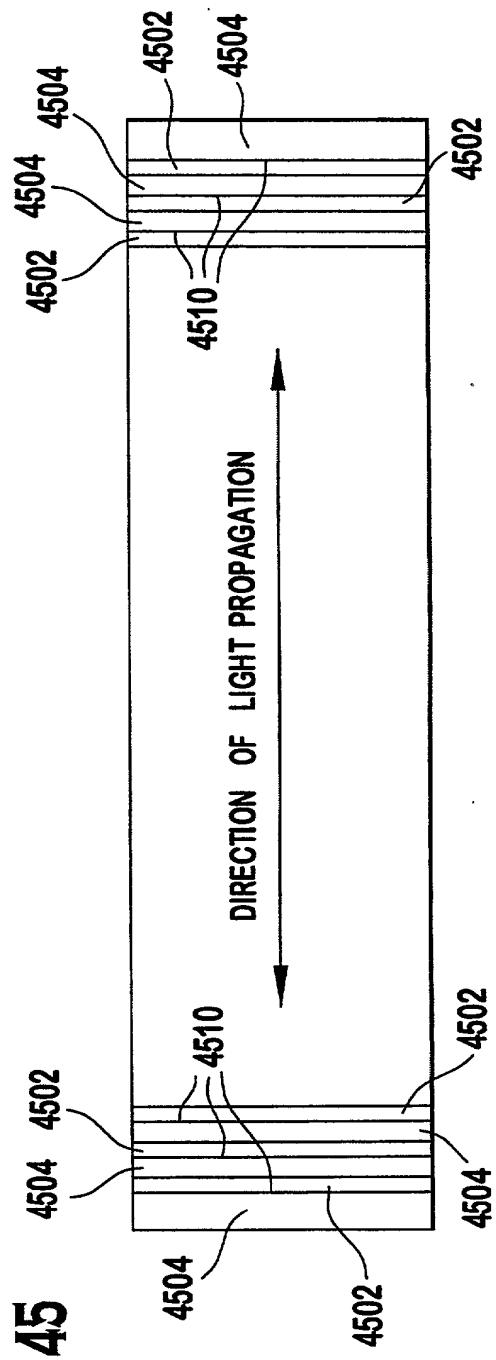
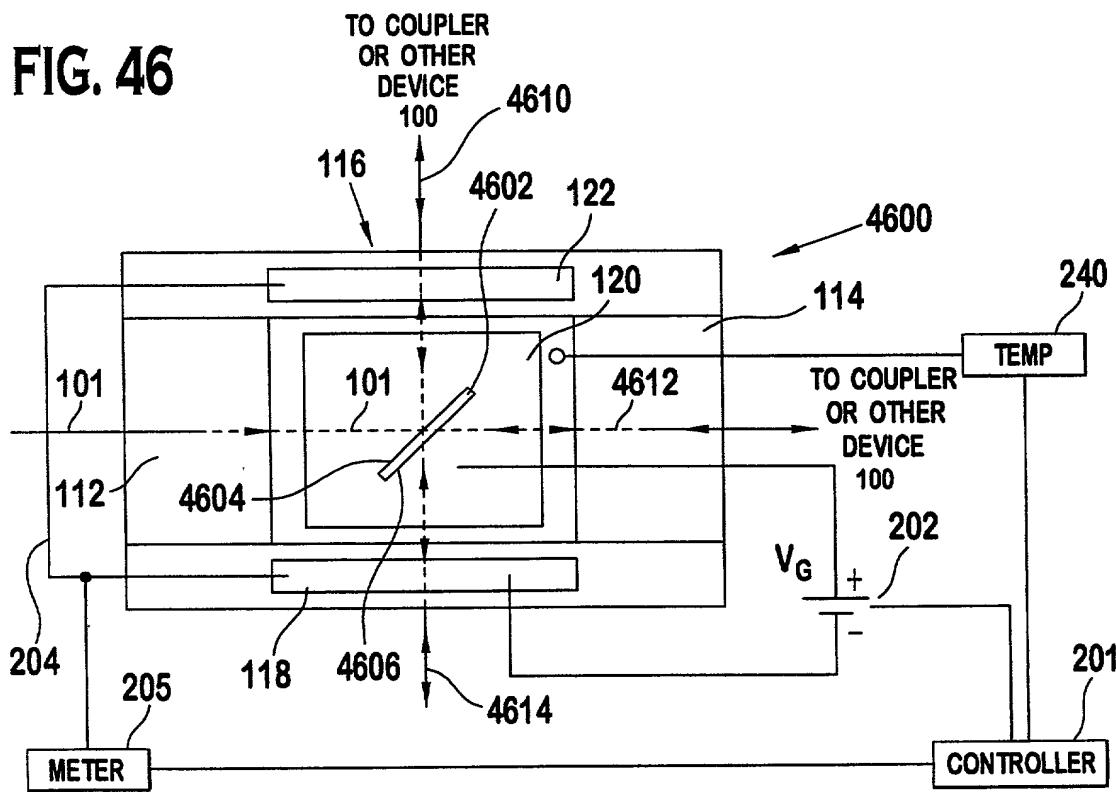


FIG. 45



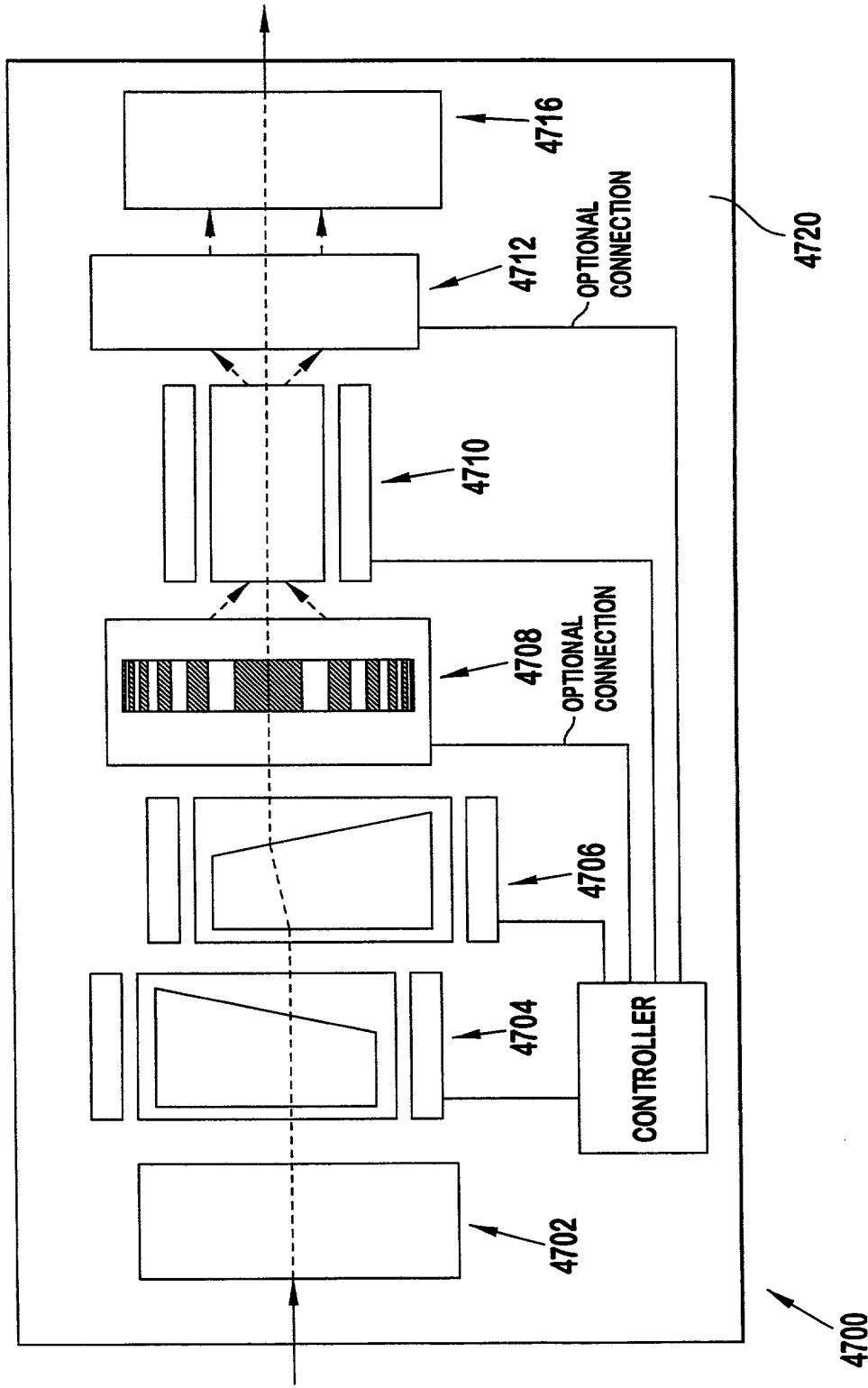
26/55

FIG. 46



27/55

FIG. 47



28/55

FIG. 48

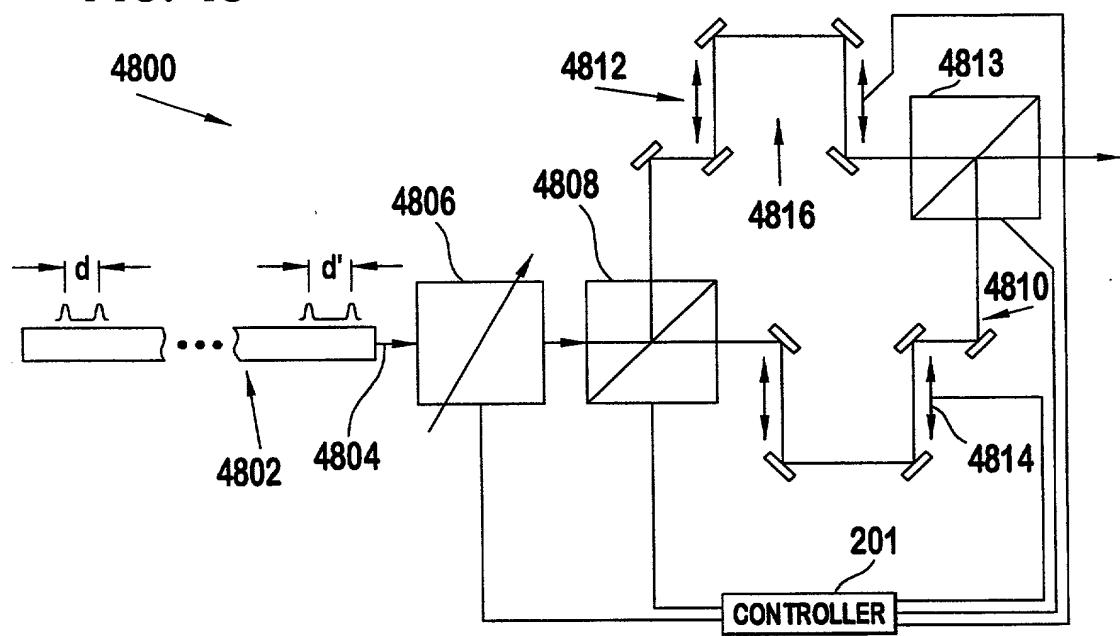


FIG. 49

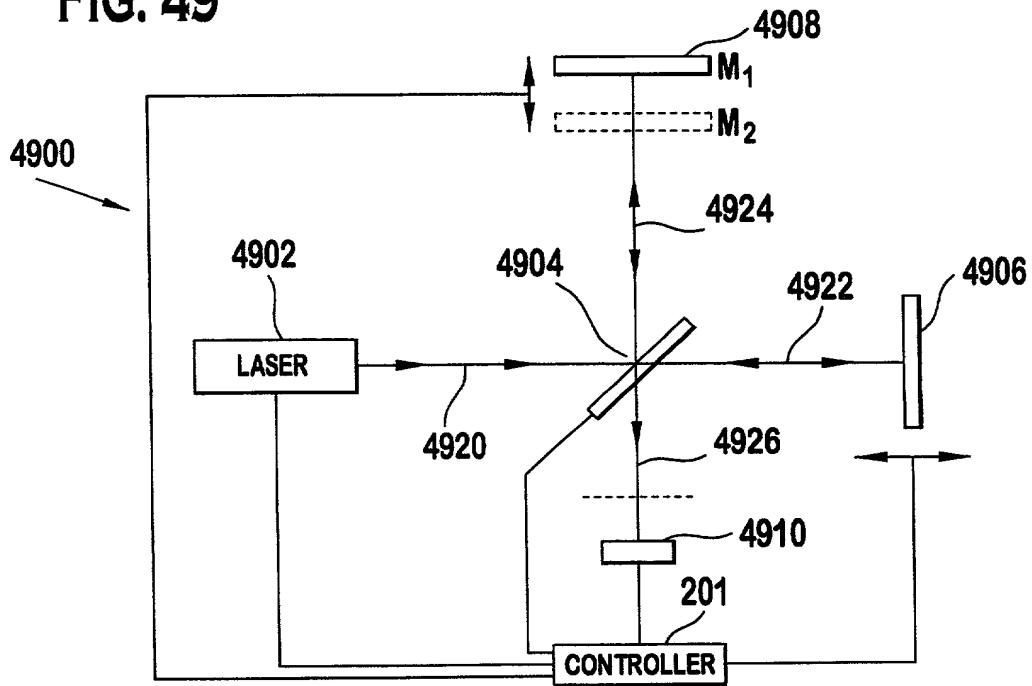
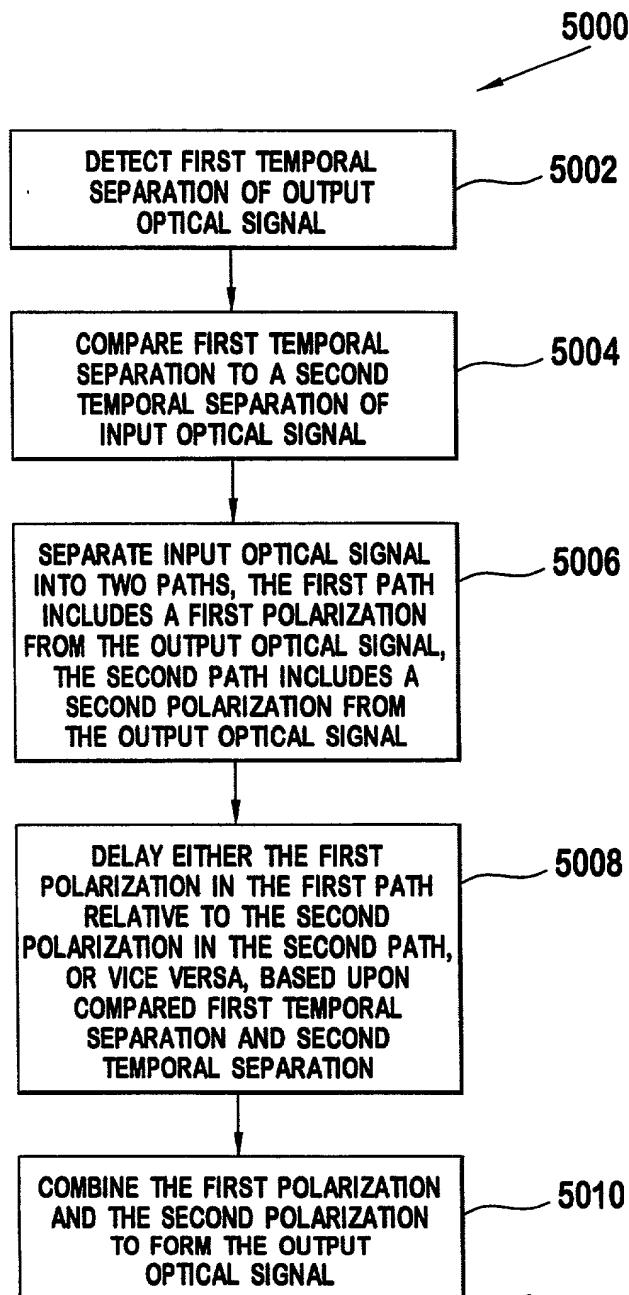


FIG. 50



30/55

FIG. 51

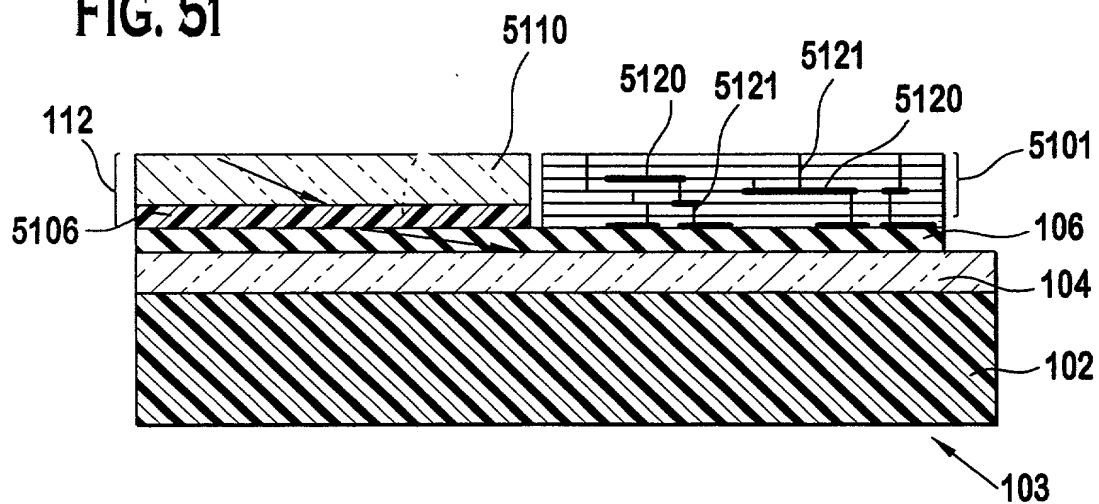
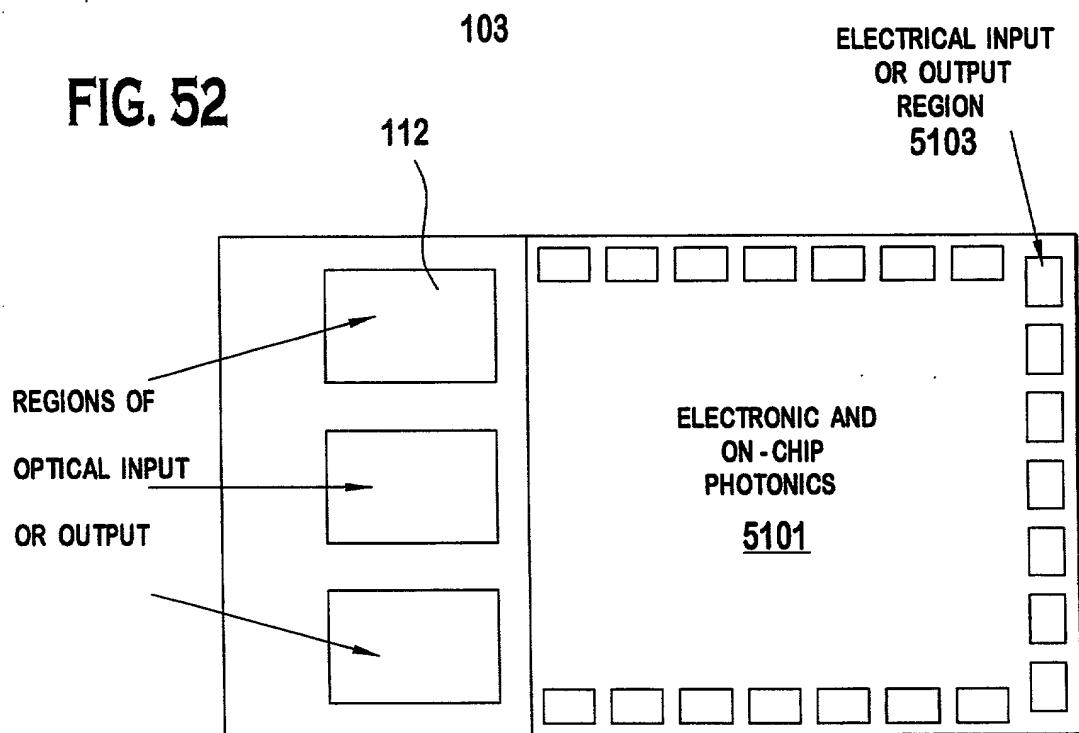


FIG. 52



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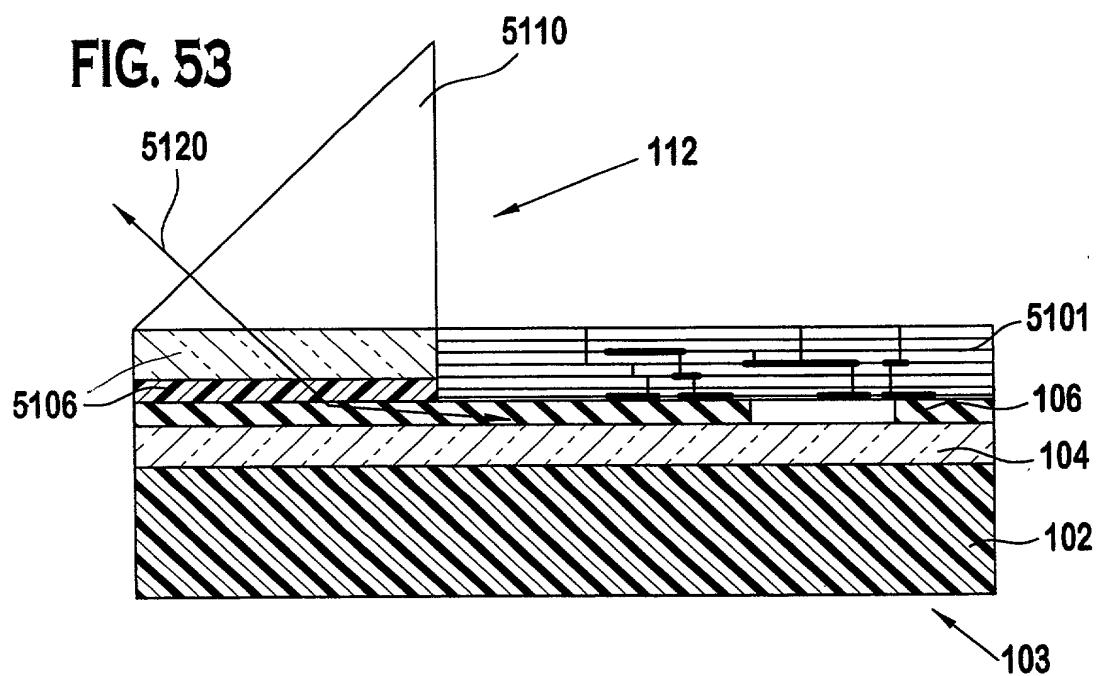
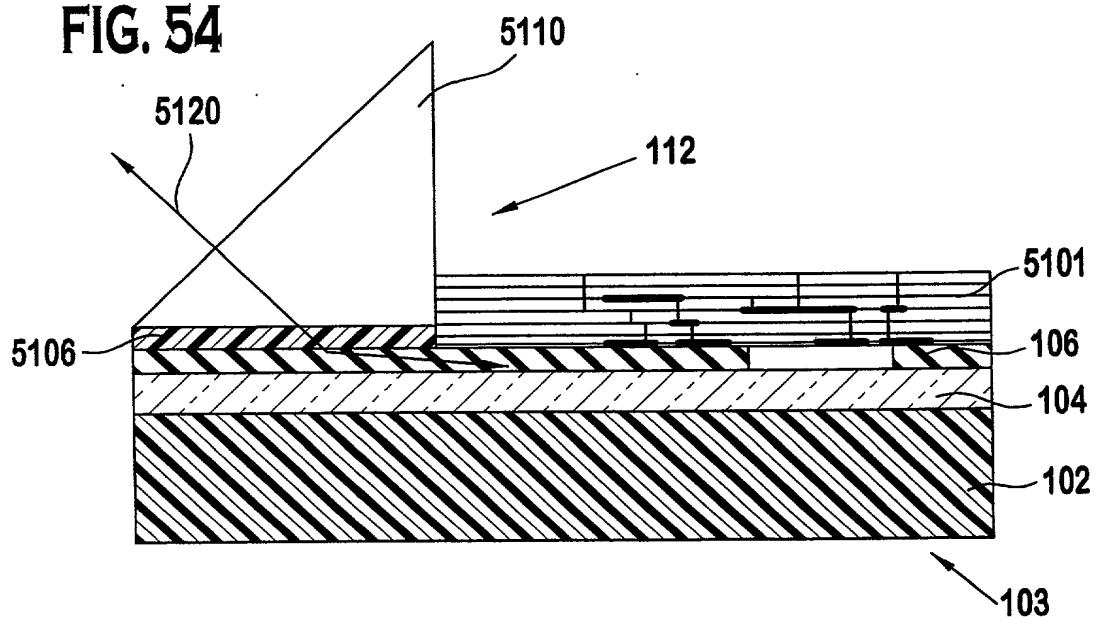
FIG. 53**FIG. 54**

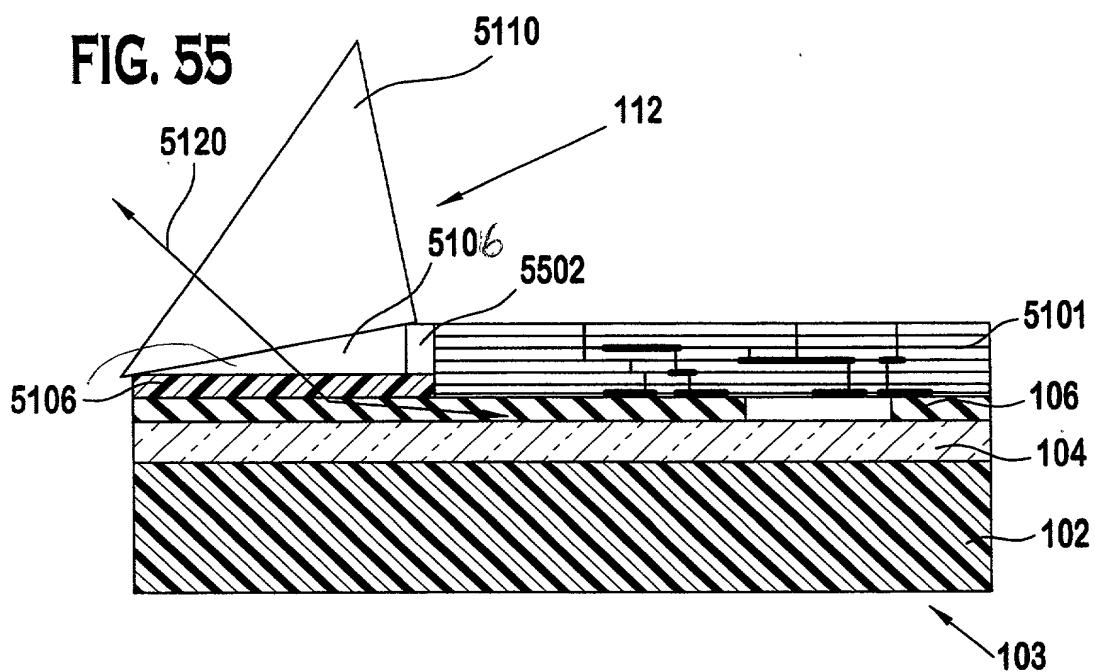
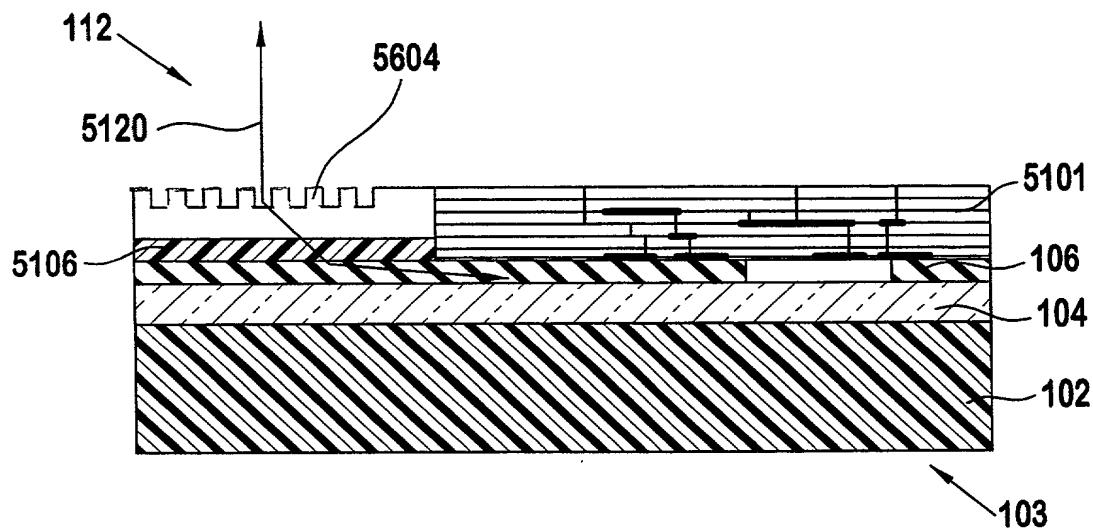
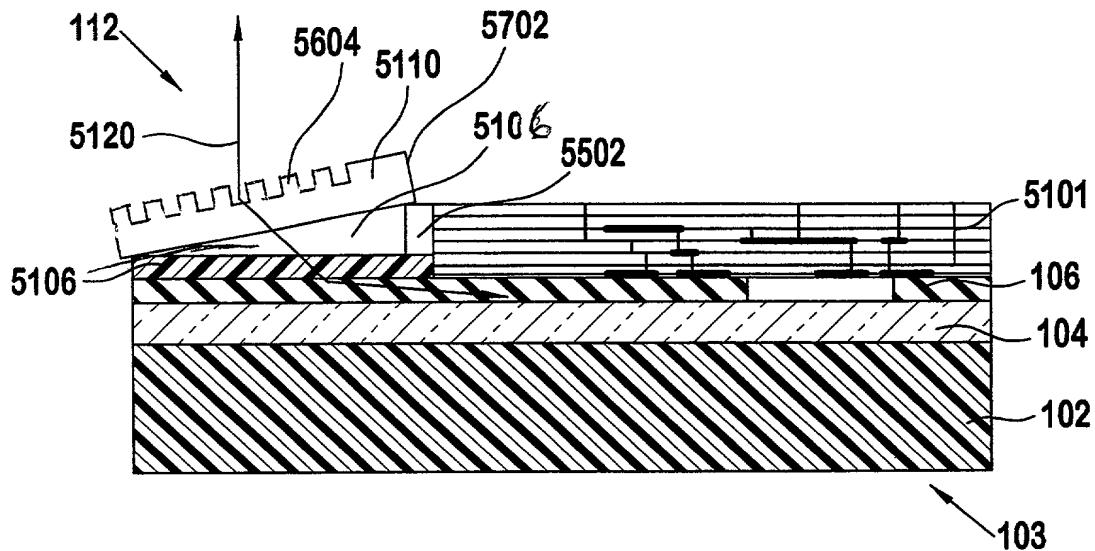
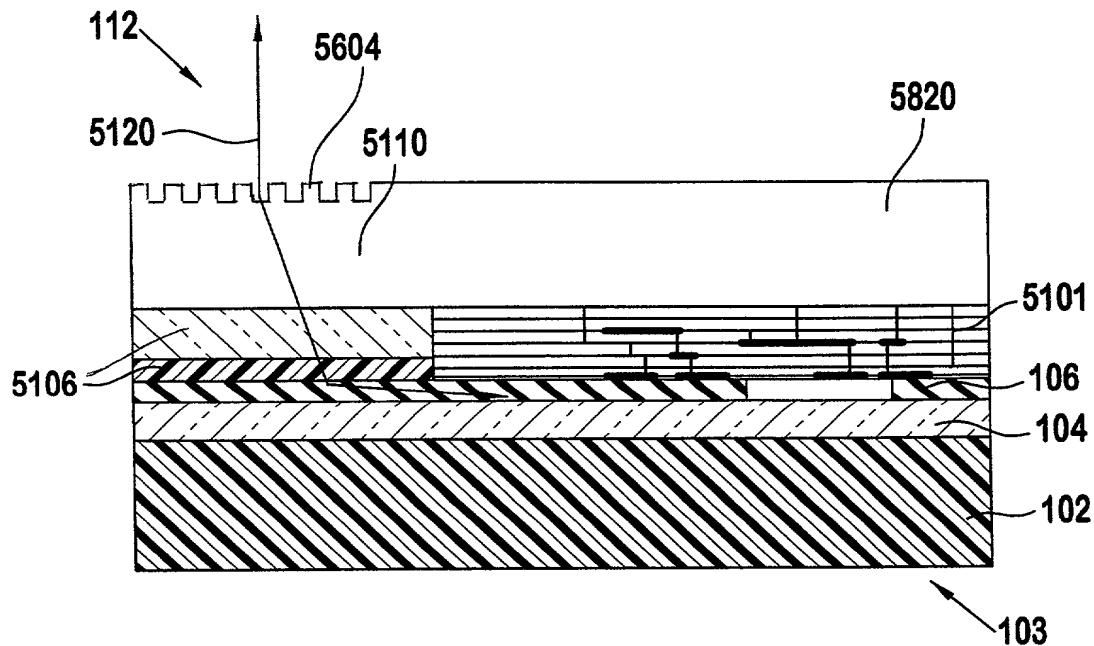
FIG. 55**FIG. 56**

FIG. 57**FIG. 58**

34/55

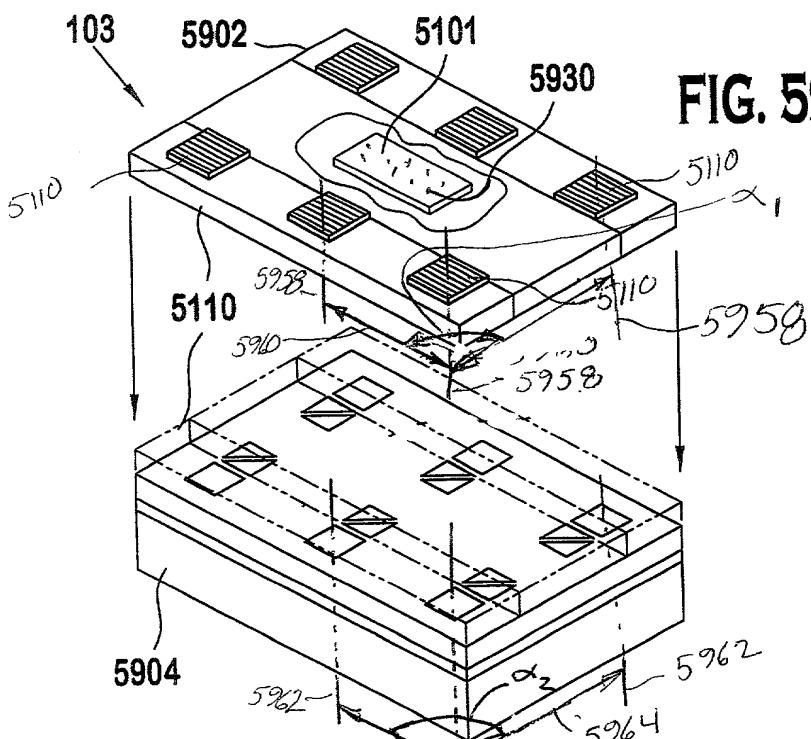


FIG. 60

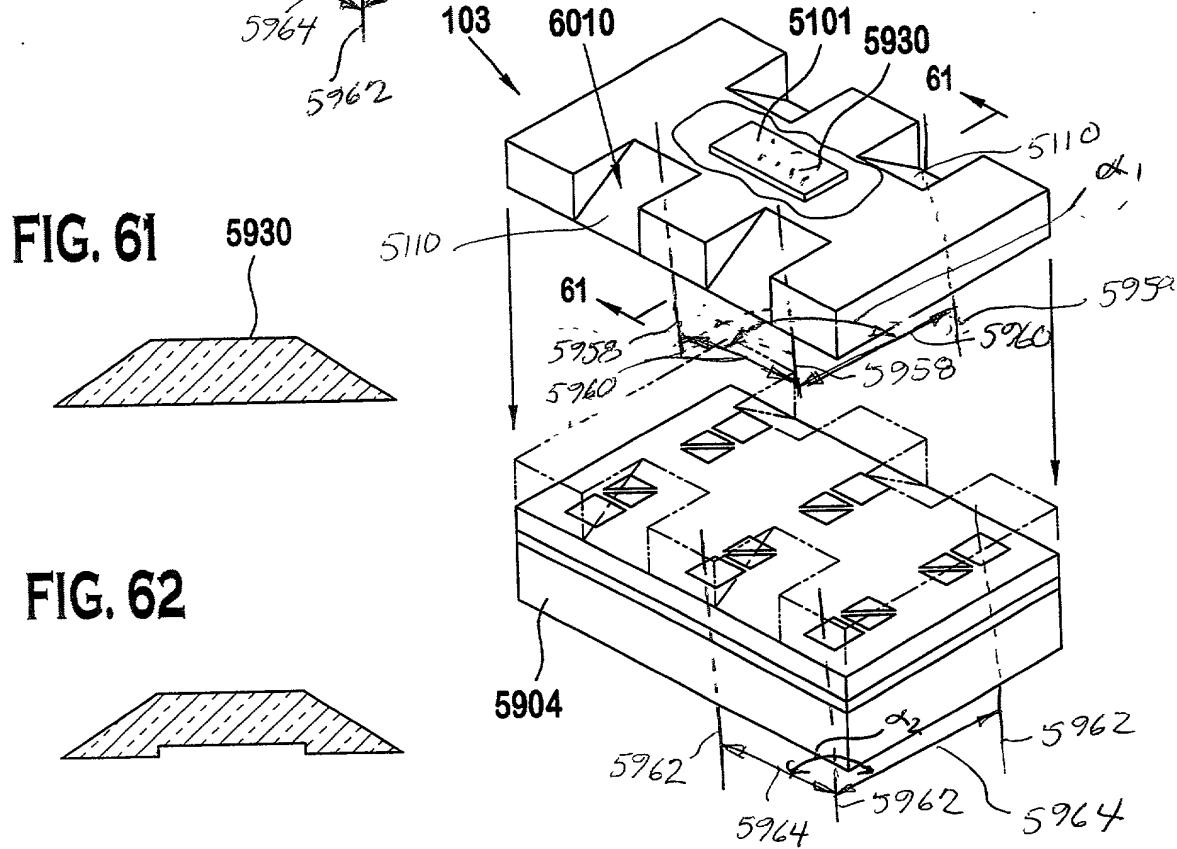


FIG. 62

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35/55

FIG. 63A

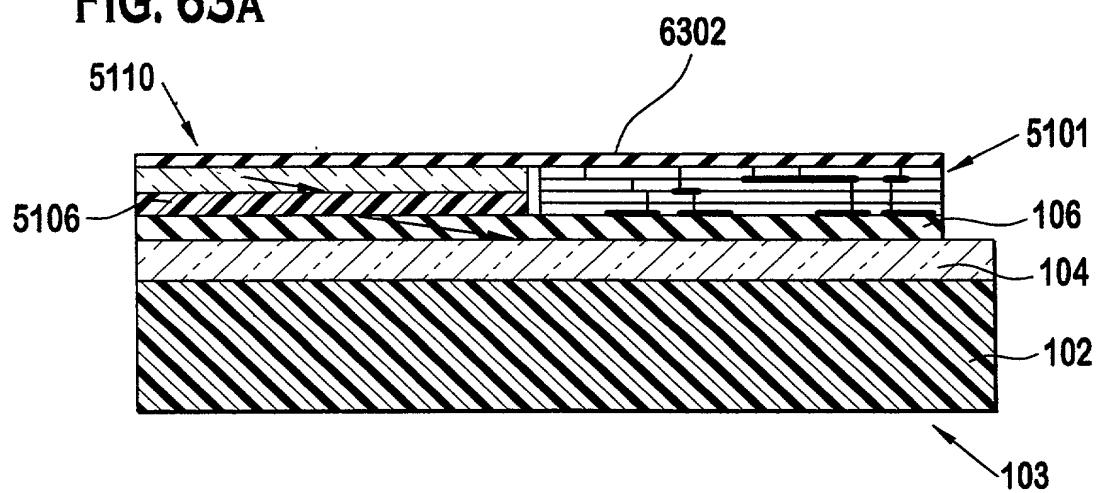
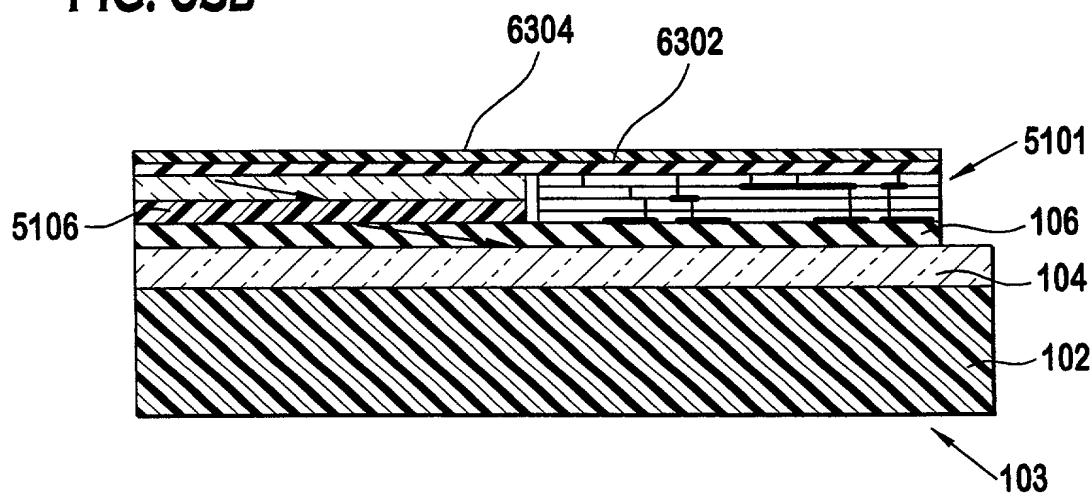


FIG. 63B



36/55

FIG. 63C

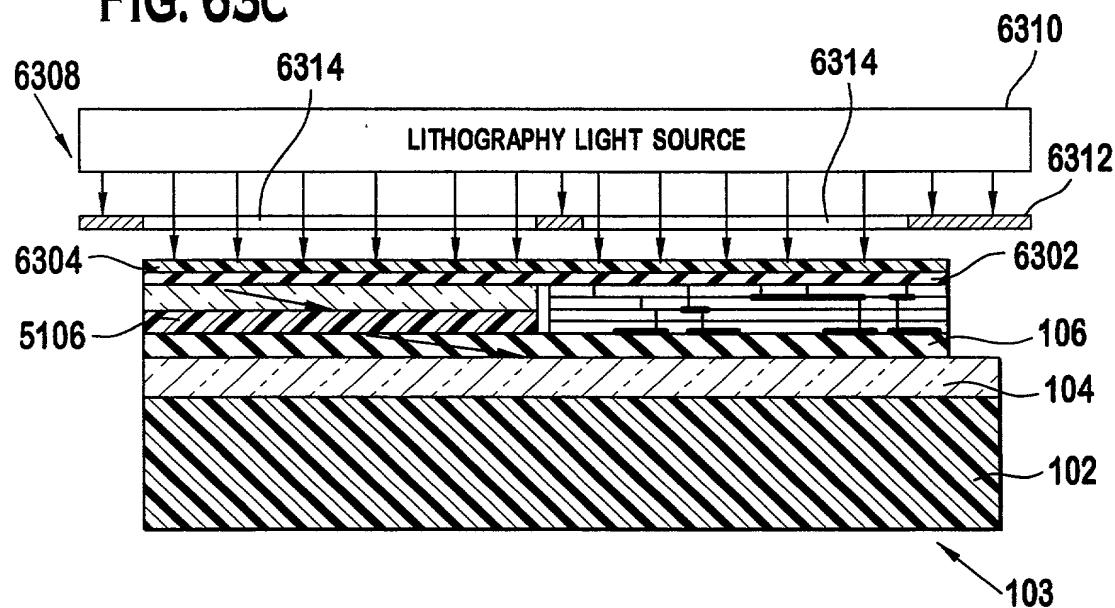
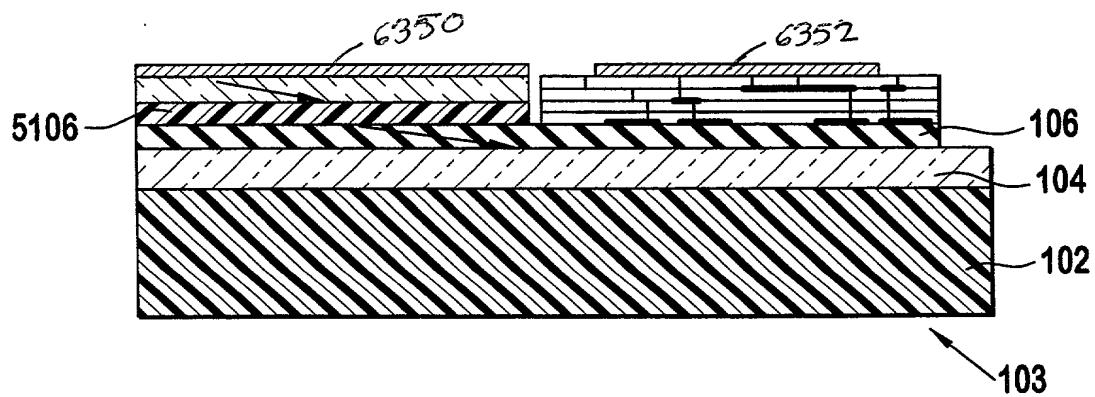


FIG. 63D



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37/55

FIG. 64

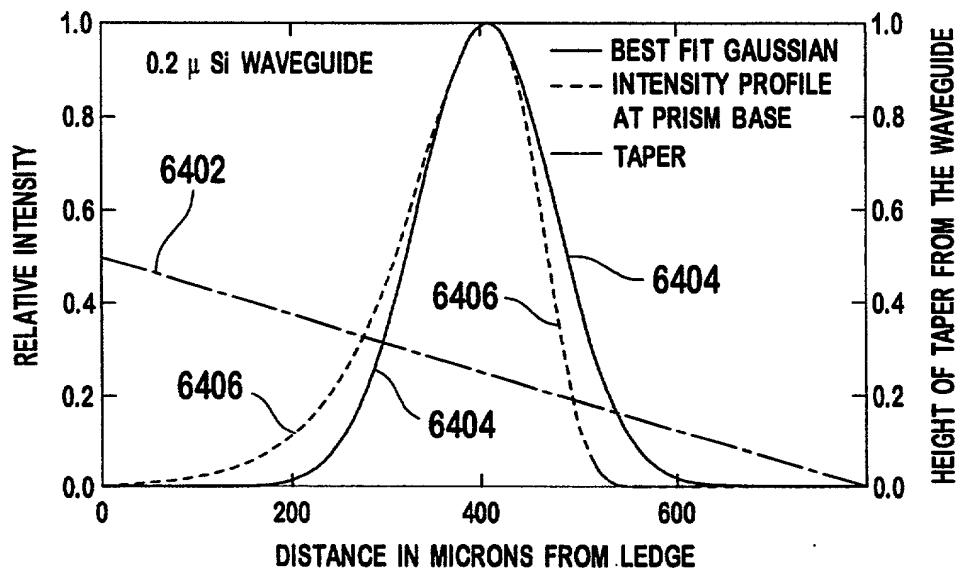
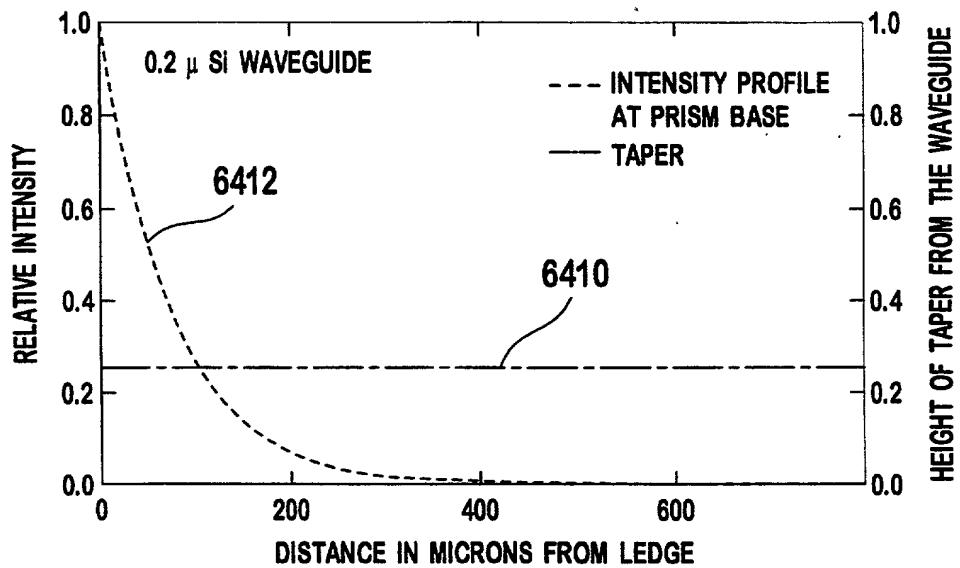


FIG. 65



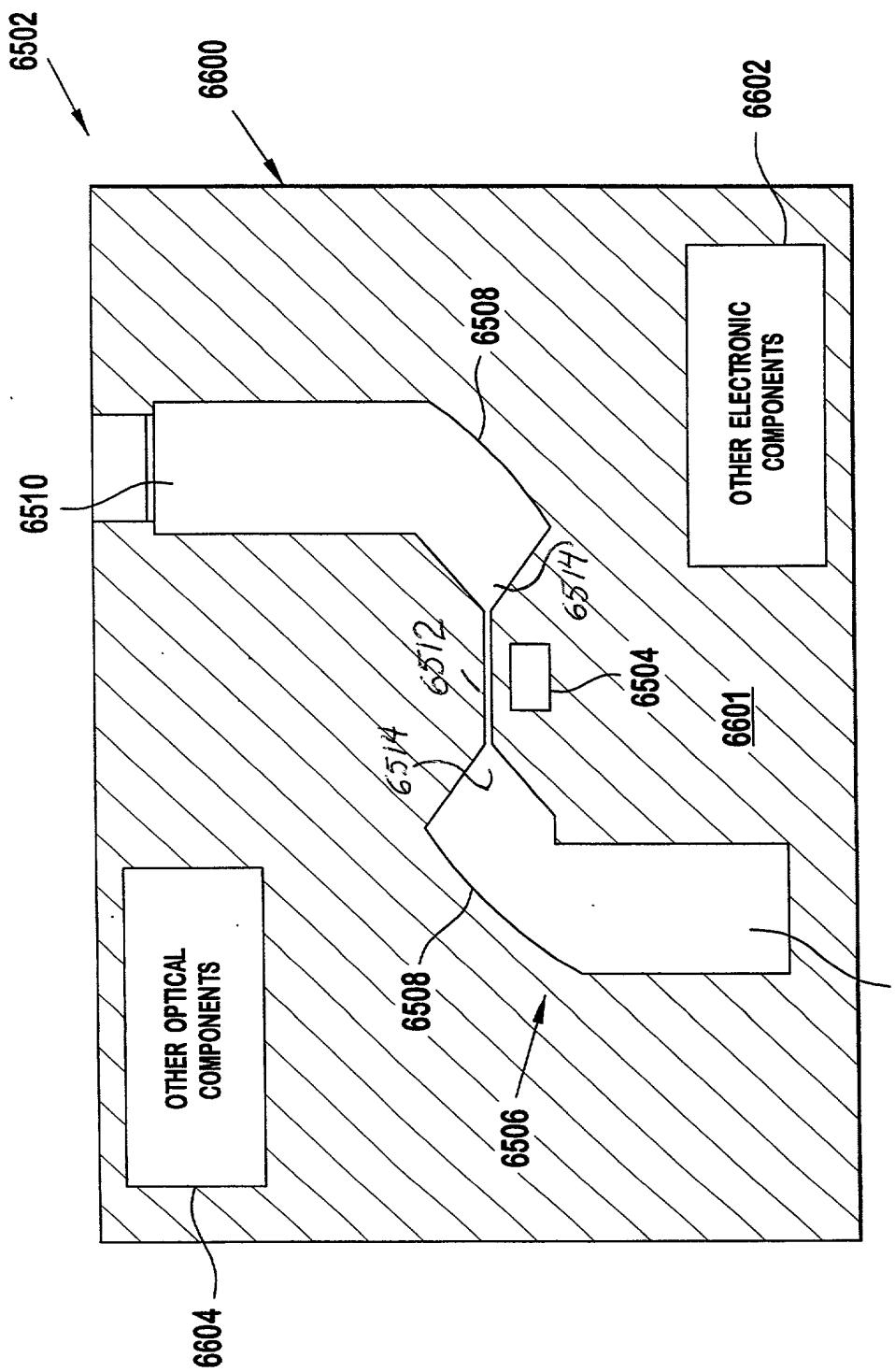
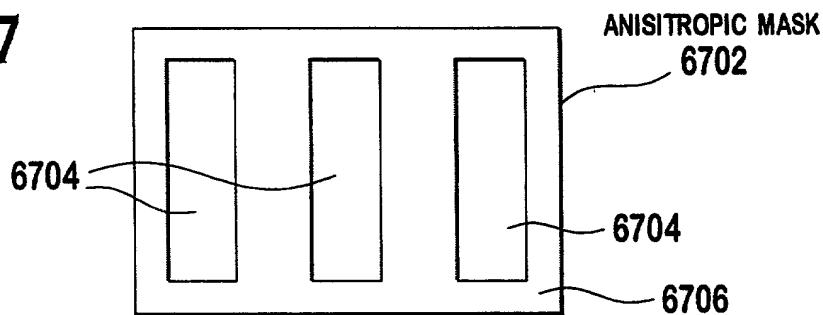
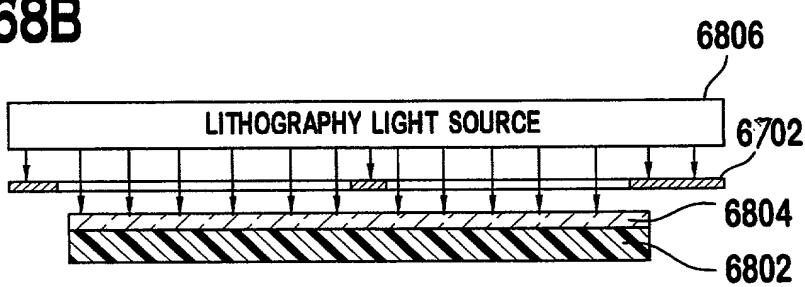
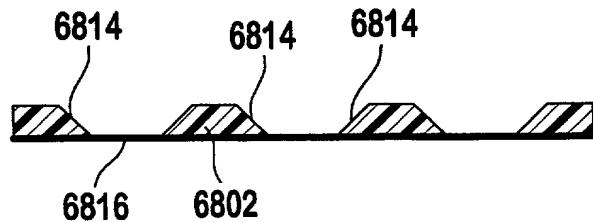


FIG. 66

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FIG. 67**FIG. 68A****FIG. 68B****FIG. 68C****FIG. 68D**

40/55

FIG. 69

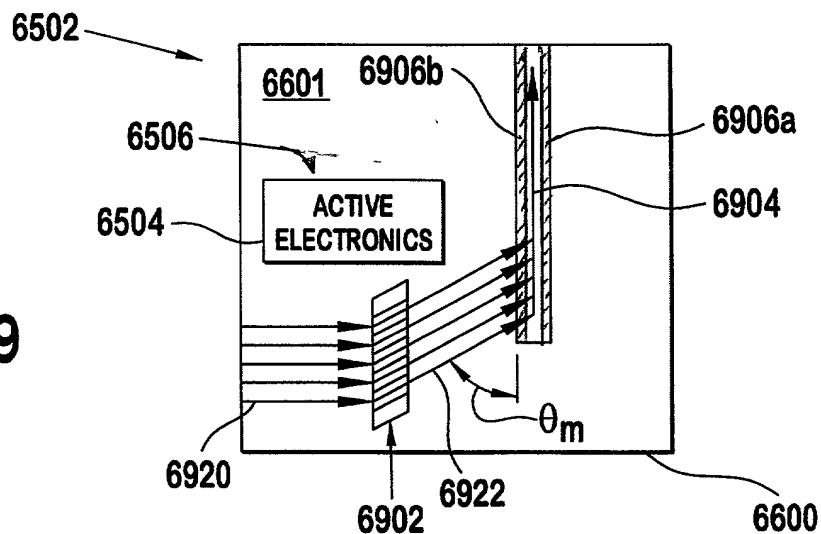


FIG. 70

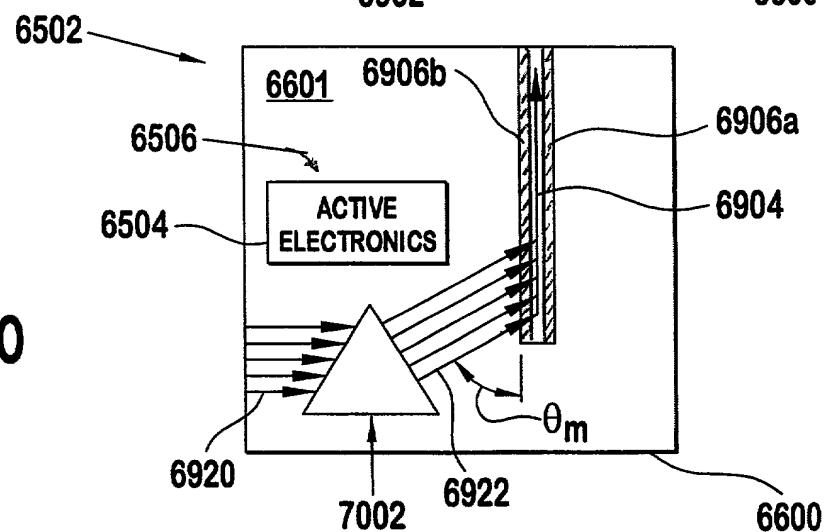
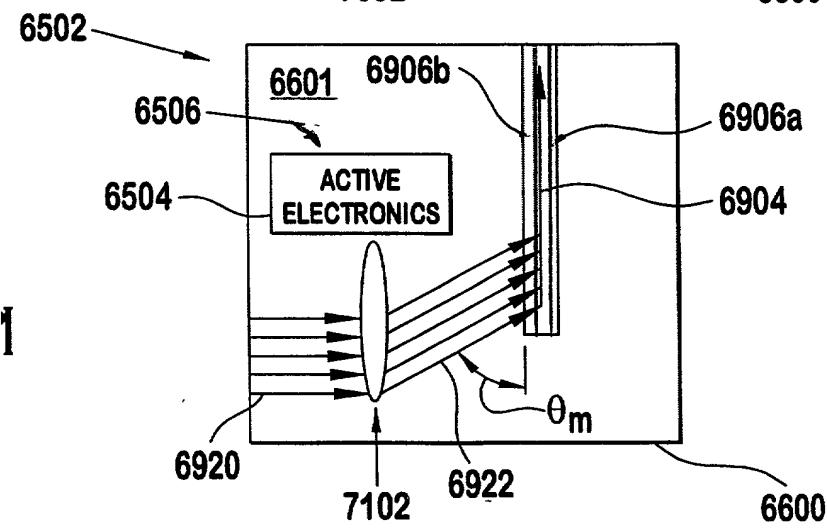


FIG. 71



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41/55

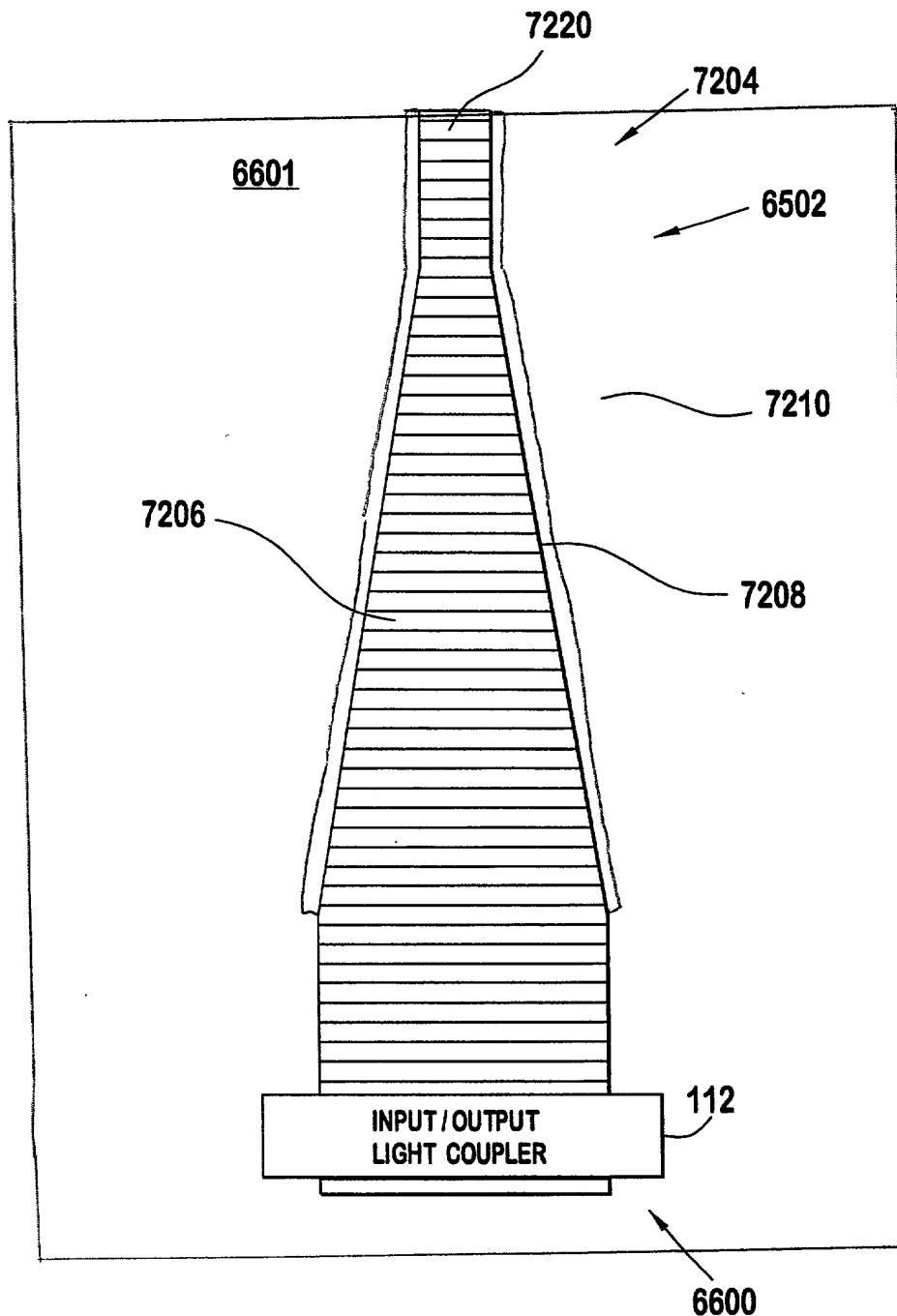


FIG. 72

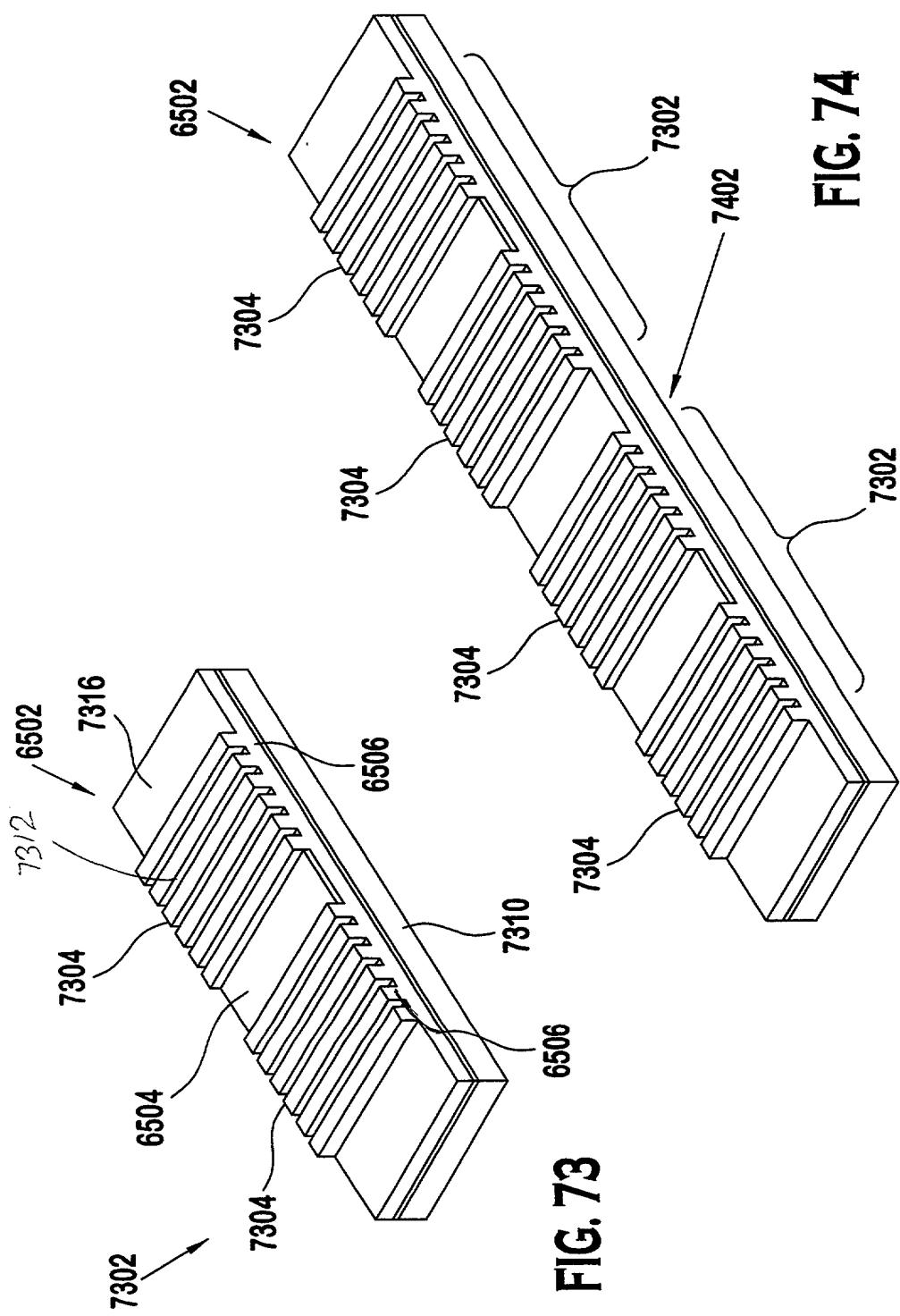
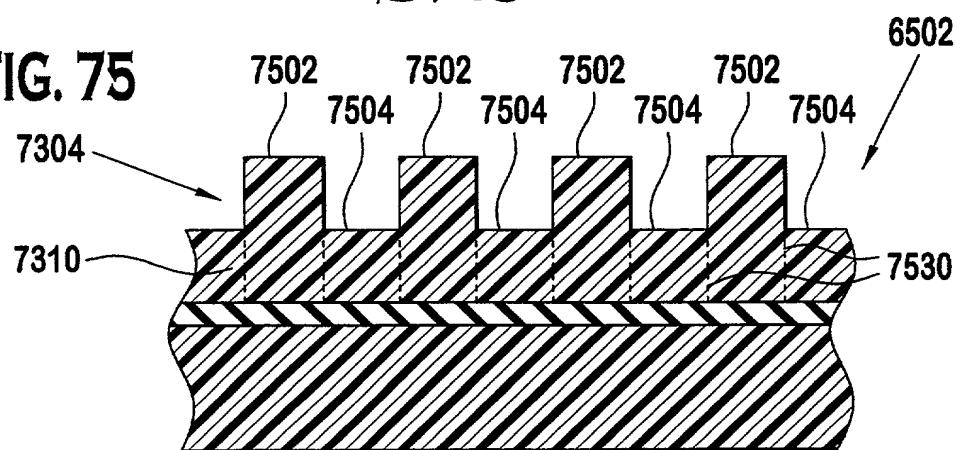
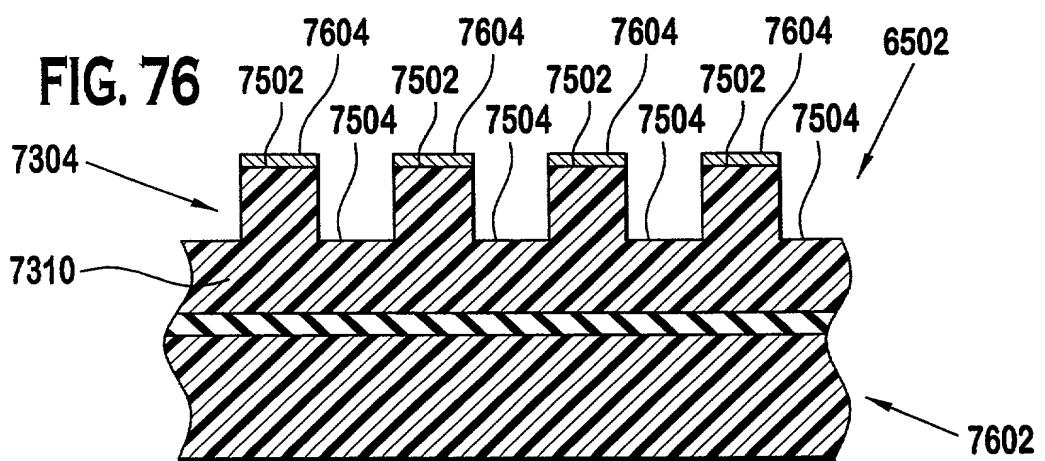
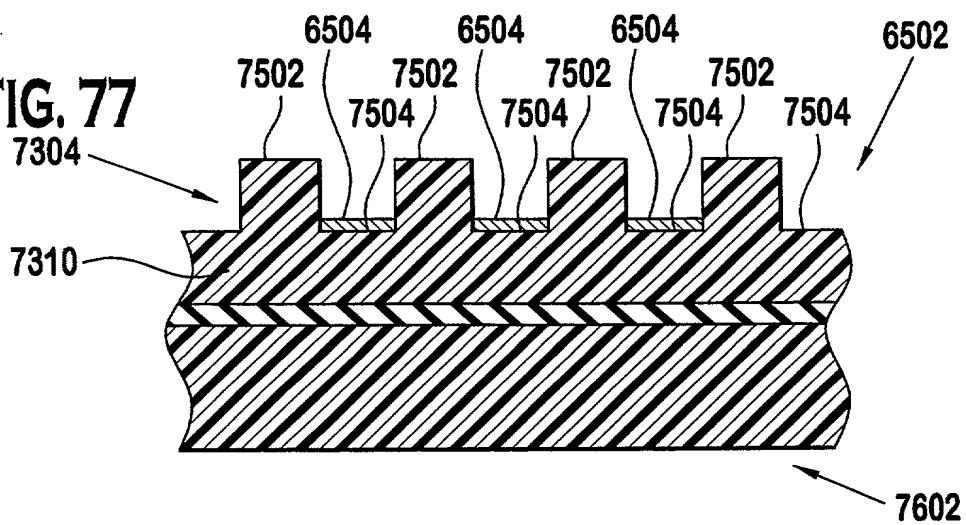
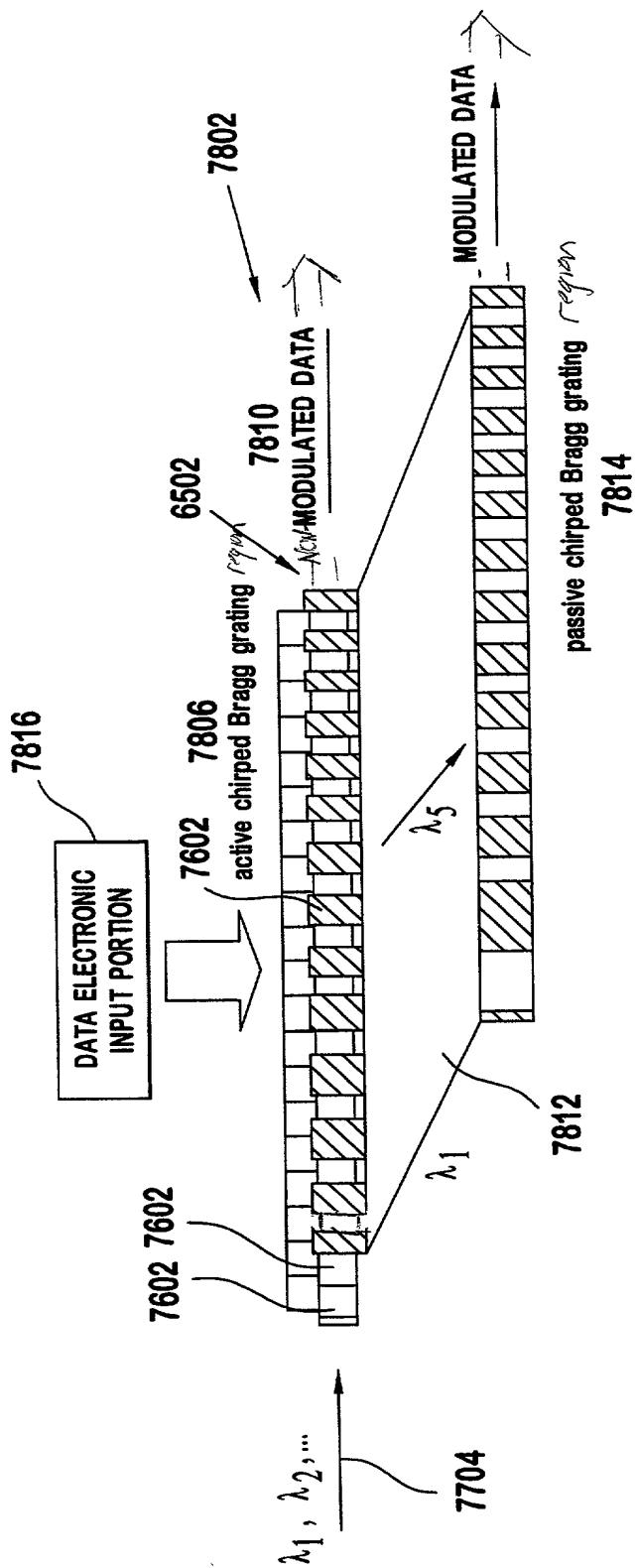


FIG. 75**FIG. 76****FIG. 77**

**FIG. 78**

45/55

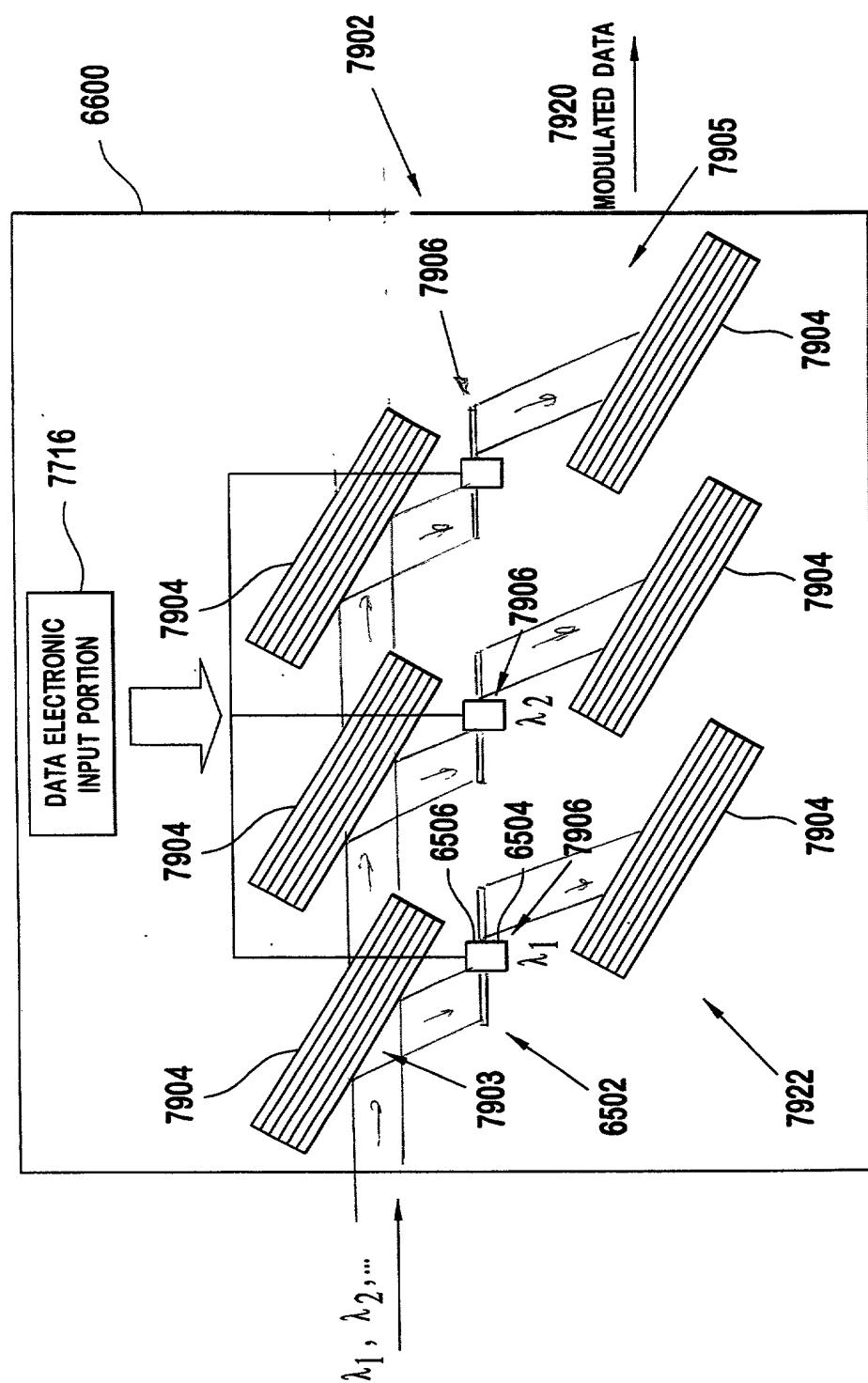


FIG. 79

46/55

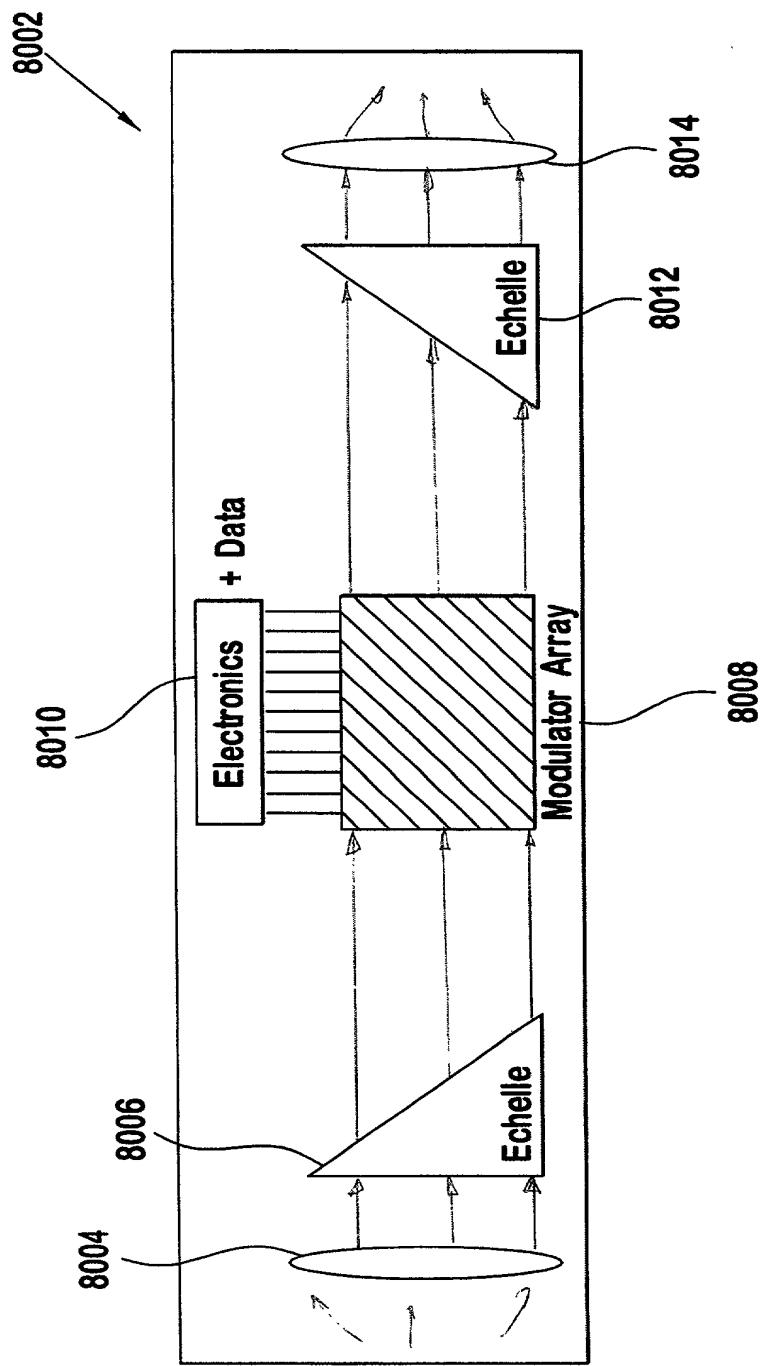
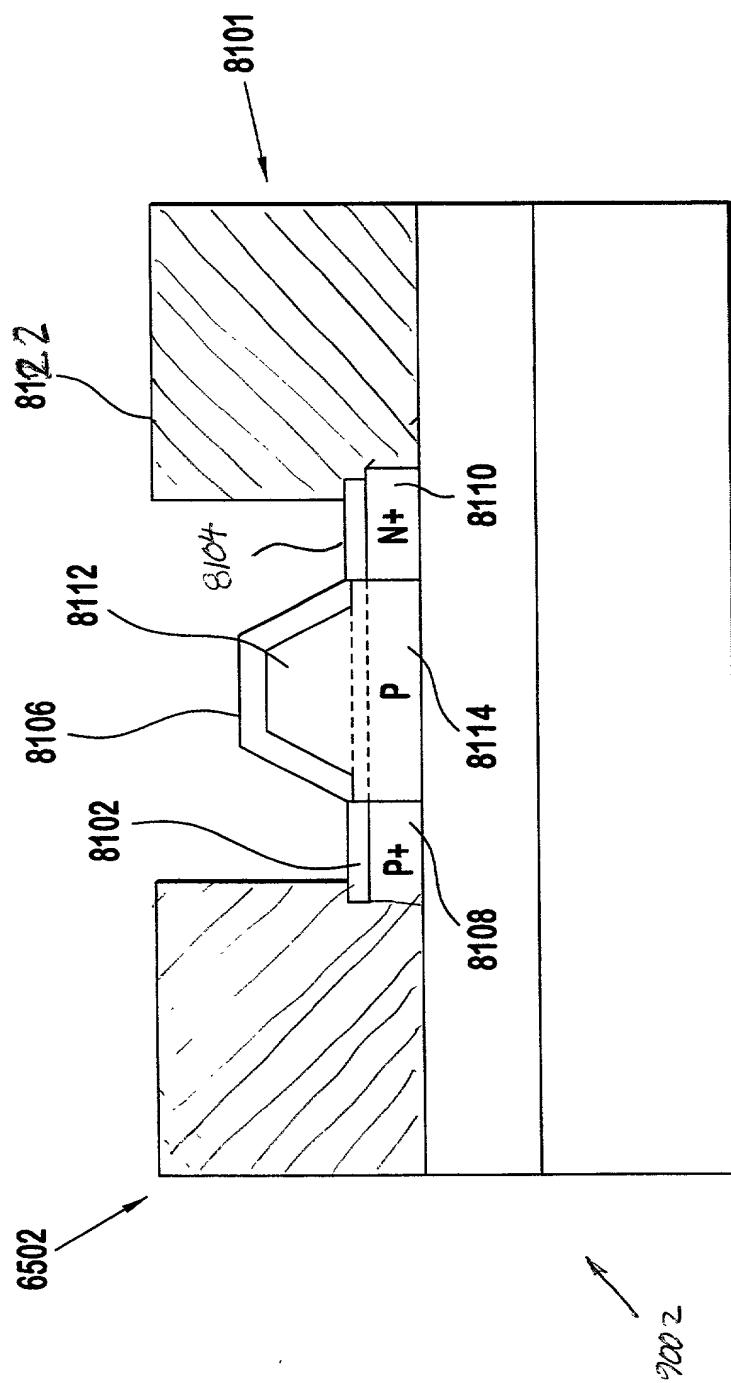


FIG. 80

47/55



81
FIG.

48/55.

FIG. 82

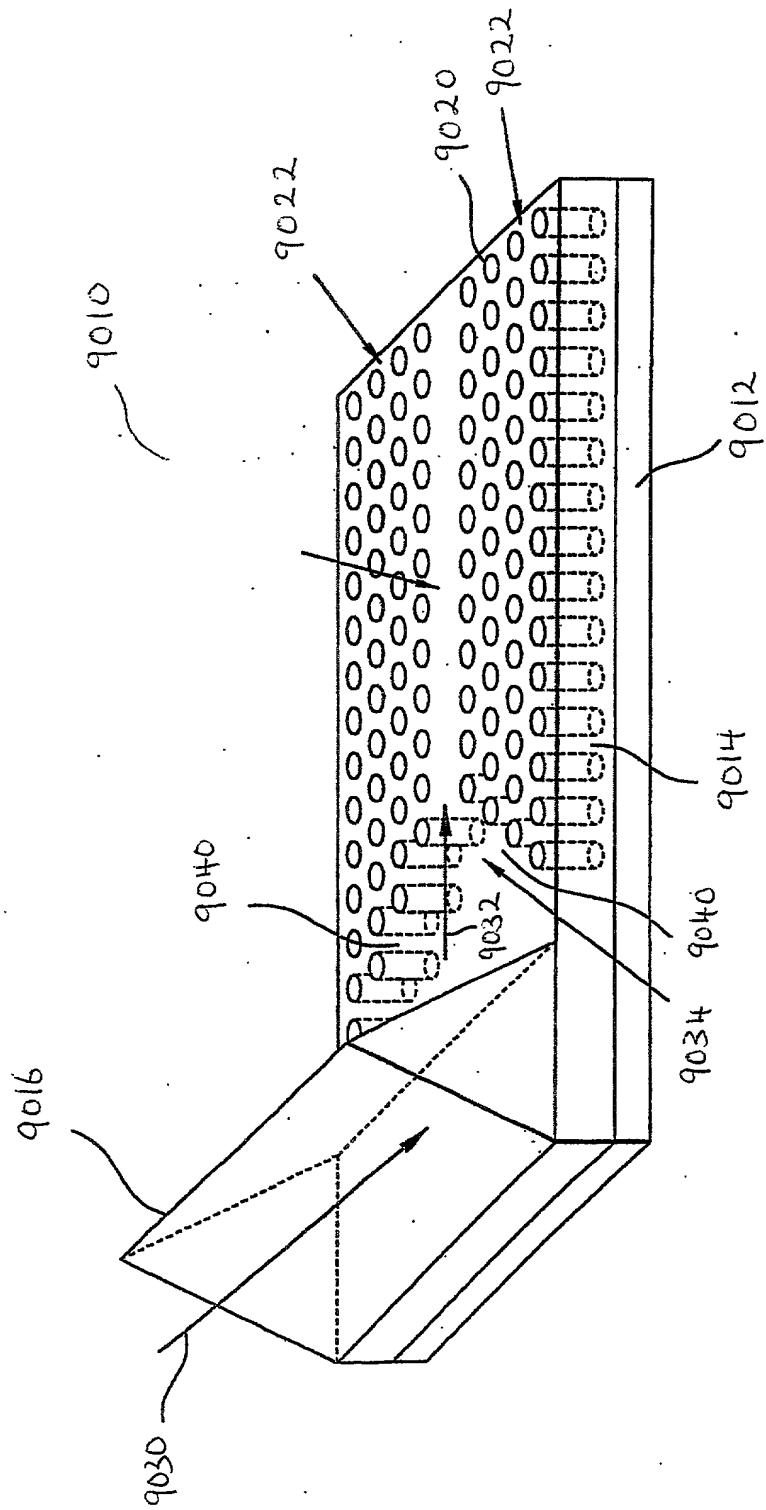
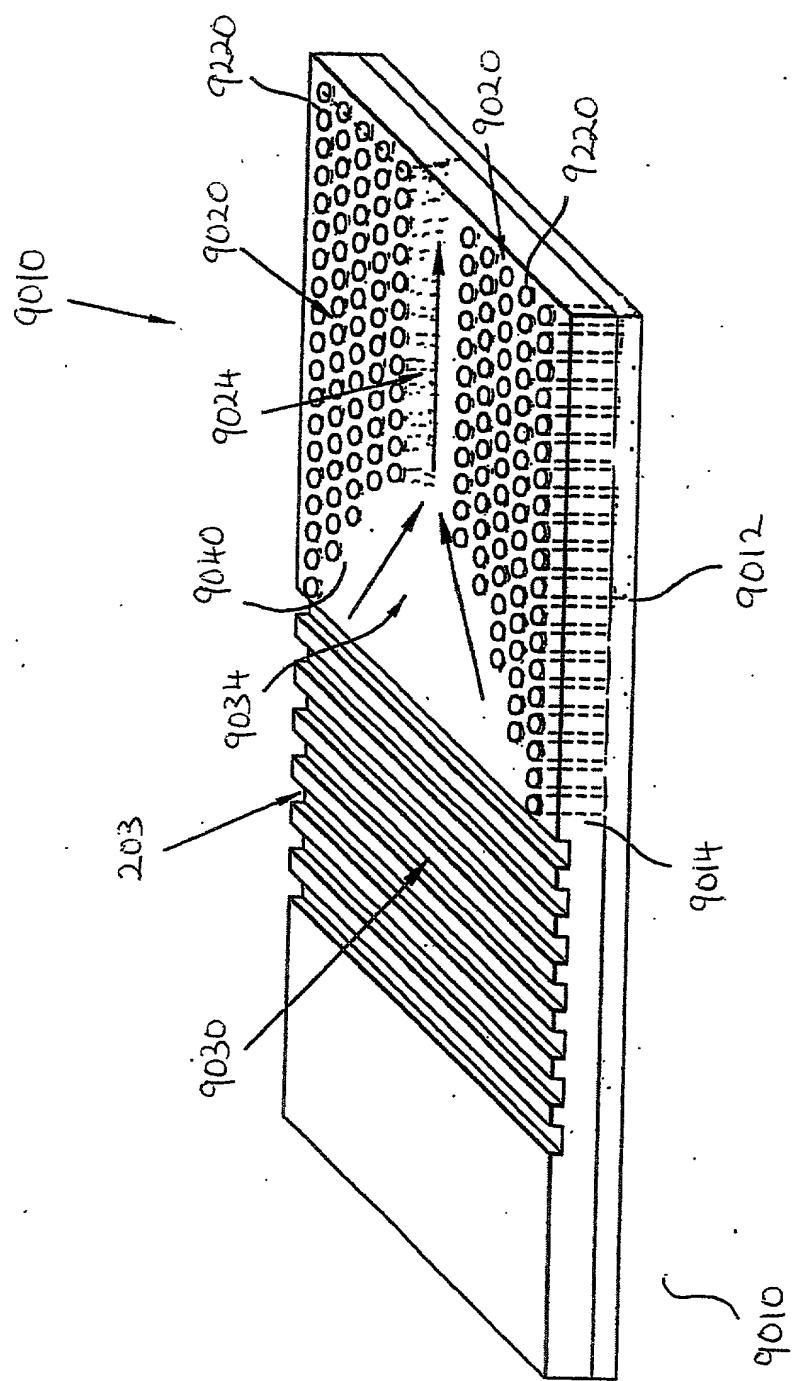


Fig. 83



49/55

50/55

FIG. 84

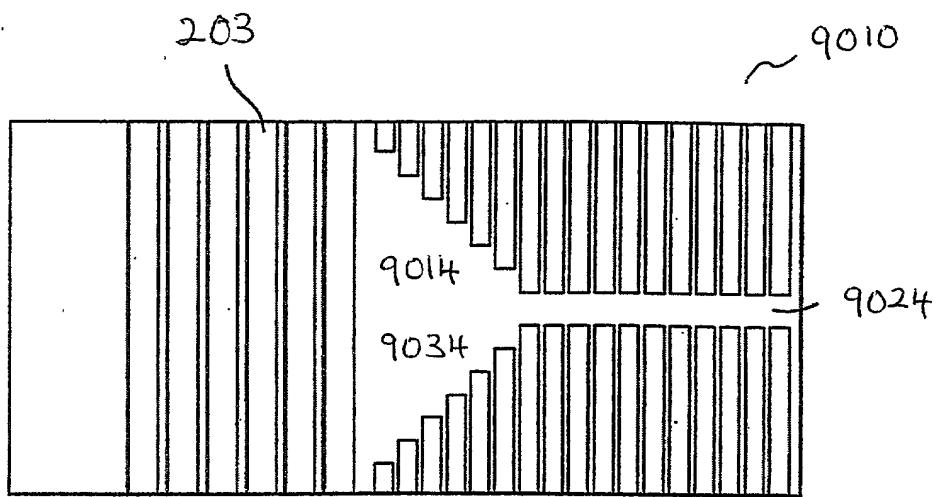
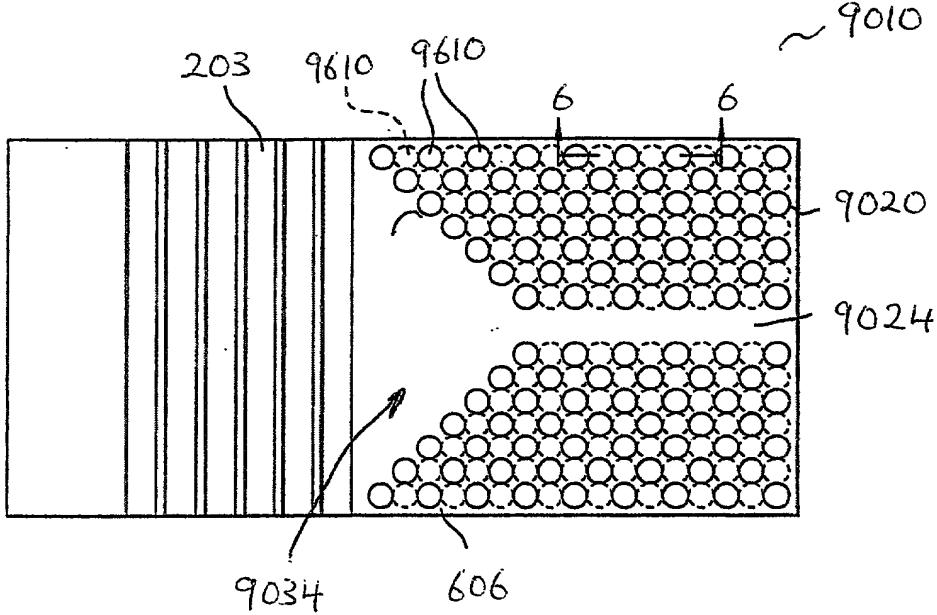


FIG. 85



10079663, 022000

51/55

FIG. 86

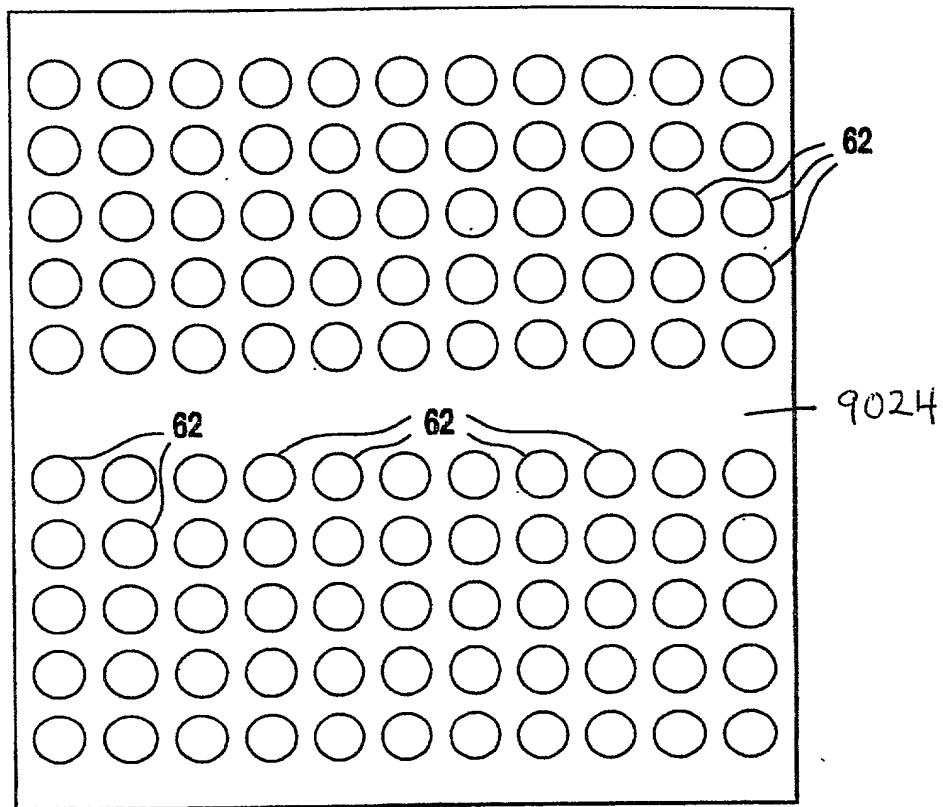
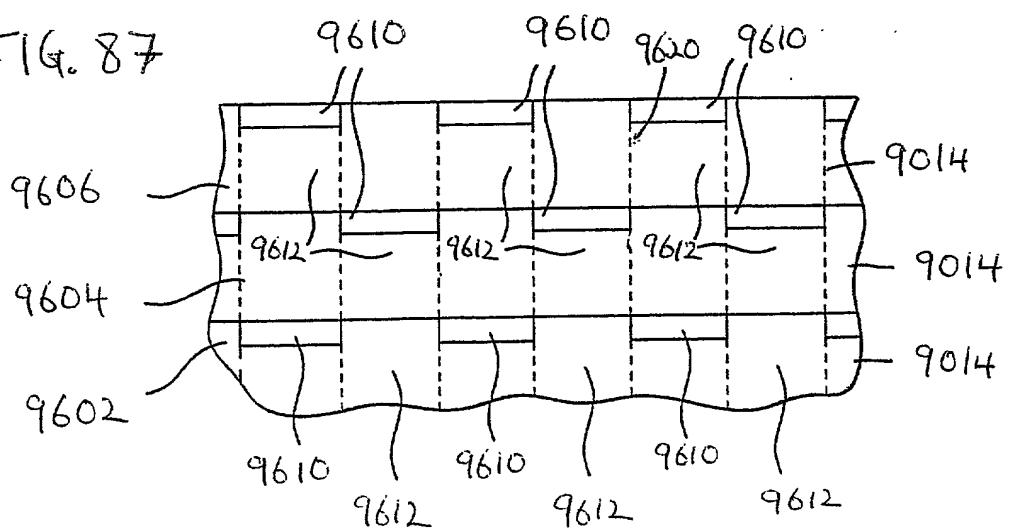


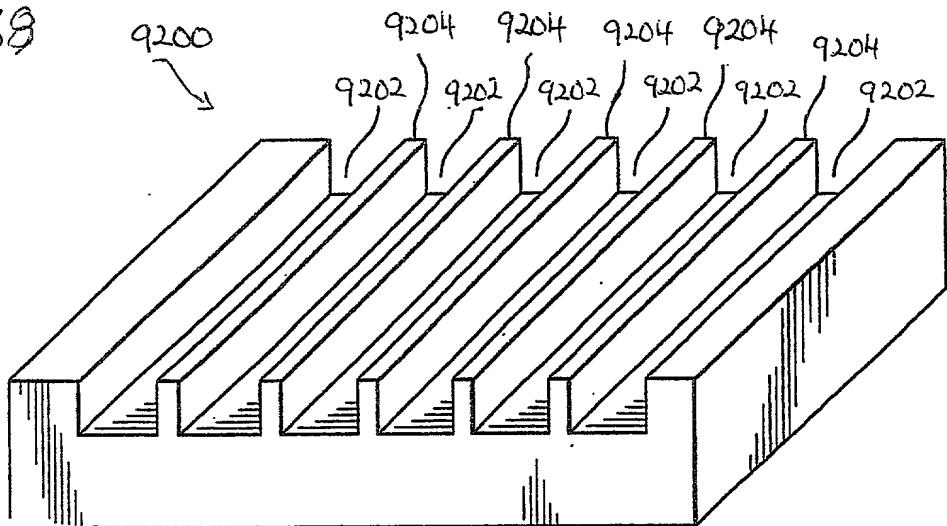
FIG. 87



100%956680.00000000

52/55

FIG. 88



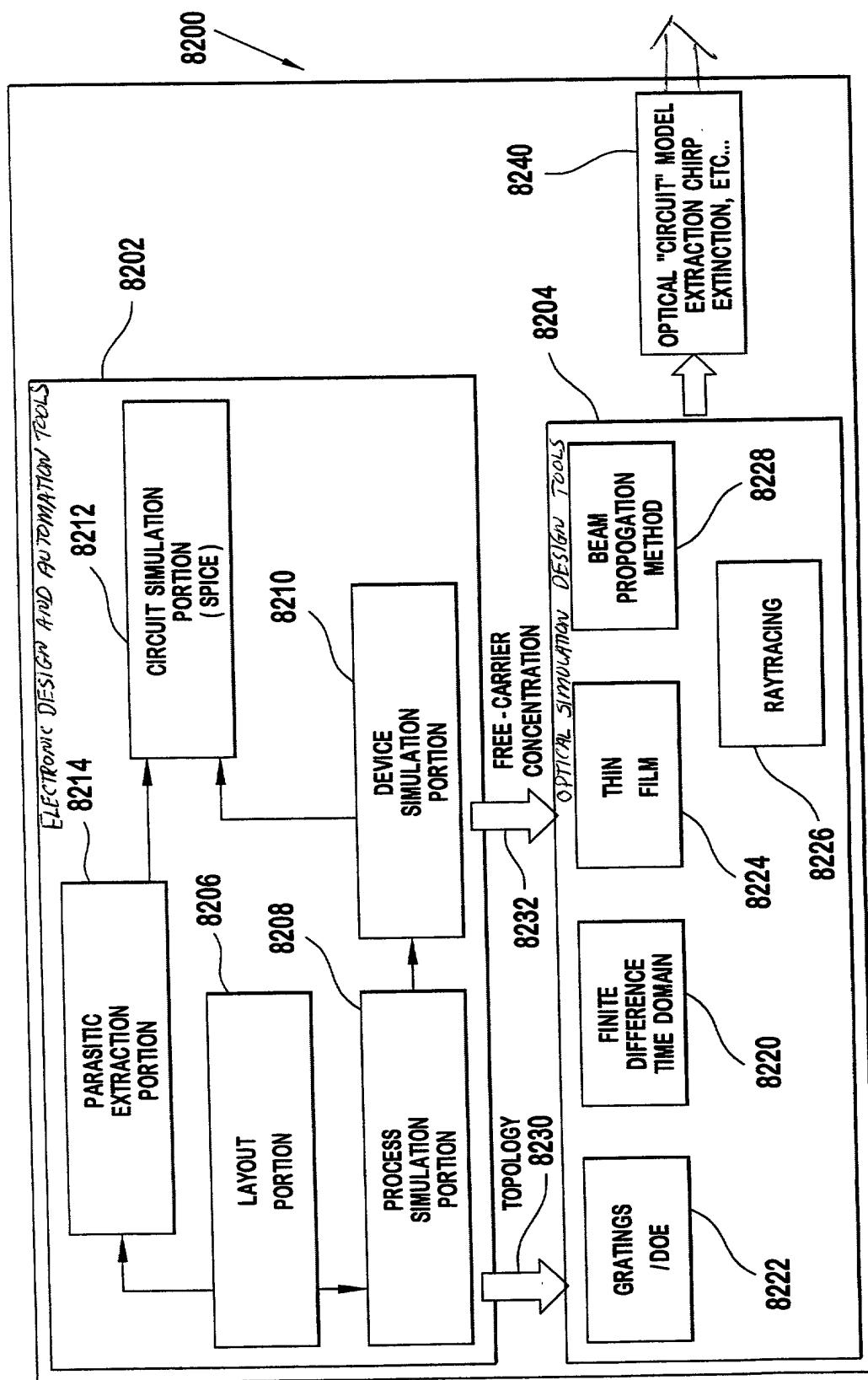


FIG. 8.9

54/55

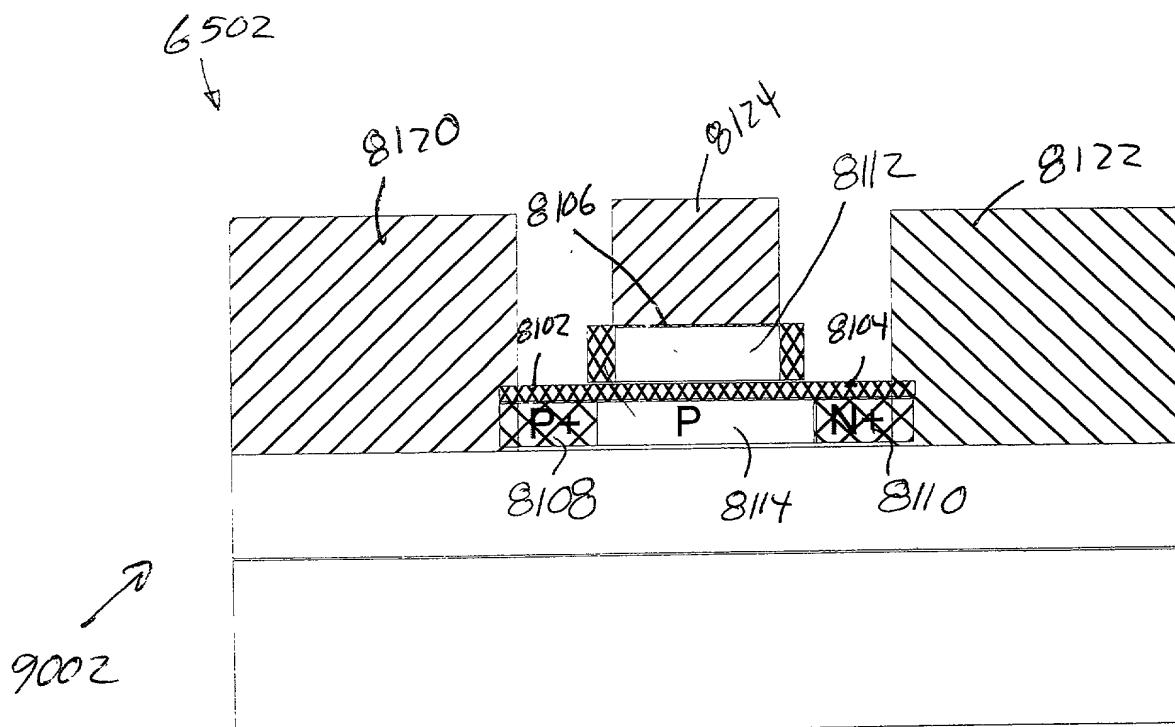


FIG. 90

55/55

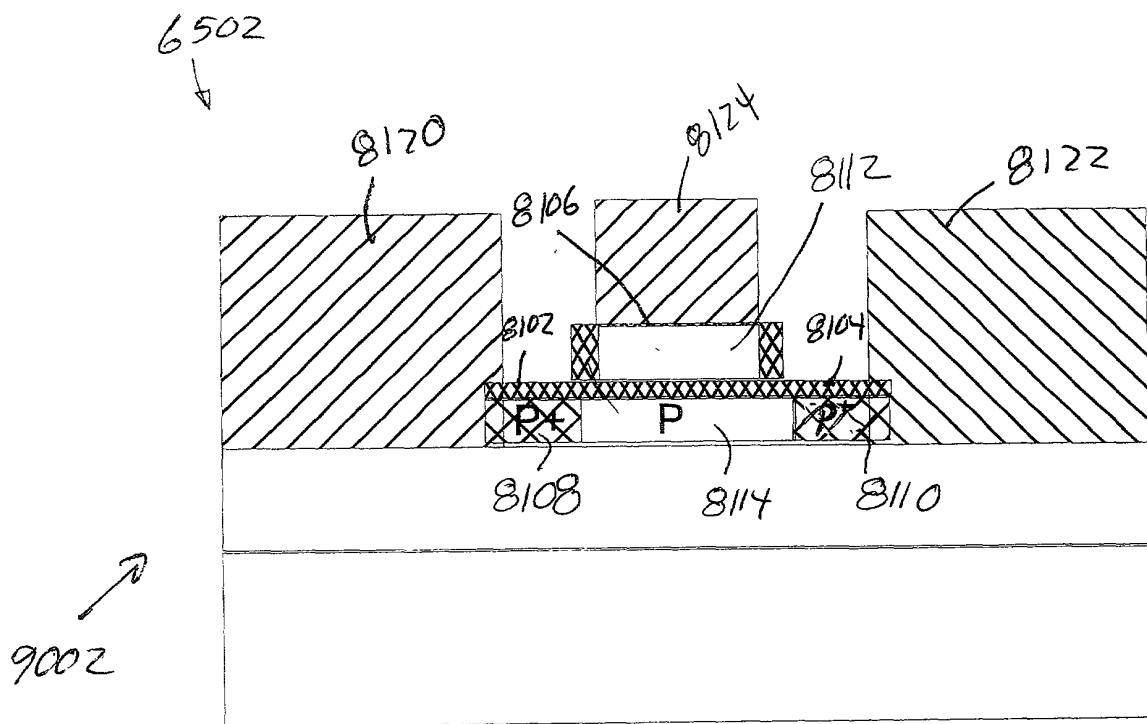


FIG. 91